

MARCH 1995

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With Amateur Radio

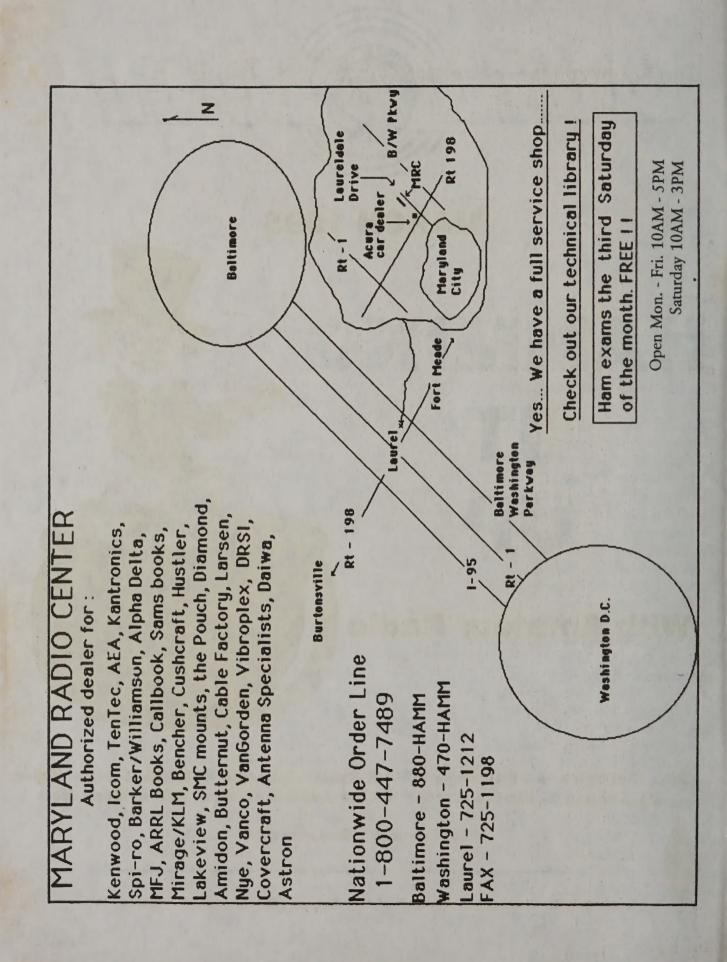


FCC Highlights & ARRL Report & VE Exams Schedule Public Service Report

DX Column & Elmer's Corner & Club Reports & Want Ads Much More



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The Foundation For Amateur Radio, Inc.



Washington, DC

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circulation of over 2,000. Copies are sold at local stores and a number of complimentary and swap copies are mailed each month. The magazine is entered as third class nonprofit matter at the Post

COMING EVENTS

Mar. 2-18	STS-67 SAREX Flight with WA4SIR
Mar. 4	Shore Points ARC, Absecon, NJ
*Mar. 18-19	Mecklenburg ARS, Charlotte, N.C.
Mar. 19	Local AMSAT Semiannual Meeting
Mar. 12	York Springfest, York, PA.
Mar. 26	Two Rivers ARC, Monroeville, PA.
Mar. 25-26	Greater Baltimore Hamboree, Timonium, MD.
*Apr. 1	Appalachian ARG, Lebanon, PA.
Apr. 2	Delaware Valley Radio Assn., Trenton, NJ
Apr. 9	Palm Sunday
Apr. 10	Penn-Del ARC Hamfest, New Castle, DE.
Apr. 16	Easter Sunday
*Apr. 23	Carroll County
*Apr. 28-30	Dayton Hamvention, Dayton, OH.
May 6	Kent Island Hamfest, Grasonville, MD.
*May 7	FAR/QCWA Annual Spring Banquet, Greenbelt, MD.
May 7	Warminister ARC, Wrightstown, PA.
May 6-7	Greenville, N.C., Hamfest
*May 14	Roanoke Valley Hamfest, Vinton (Roanoke) VA.
May 14	Antietam RA, Hagerstown, MD
May 14	Mother's Day
May 14	Armed Forces Day
May 14	Triple States RAC, Wheeling, W.VA.
May 19-21	Atlantic Div/N.Y. State Convention, Rochester, NY.
*May 21	Great Hagerstown MD. Hamfest
*May 28	Maryland FM Assn. Hamfest, Howard Co. Fairgrounds
June 3	Rome Radio Club, Rome, NY
June 4	Tamaqua Area SB ARA & Anthracite Rptr Assn., Tamaqua, PA
June 11	Central PA Hamfest, Winfield, PA
June 11	Lancaster, NY
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*Dates Not Confirmed

Conventions & Conferences

March 25-26	ARRL MD State Convention, Timonium, MD
May 19-21	ARRL Atlantic Division Conference, Rochester, NY

The Foundation for Amateur Radio, Inc. meets at 8: p.m. on the second Wednesday of each month.

Visitors are always welcome

The next meeting will be held March 8 at the

Lee Center, Alexandria, Virginia

Take Capitol Beltway to Exit 1 (US 1 North)

North to the second traffic light, Left on Gibbon Street to

Fayette. Left on Fayette to dead end at Lee Center Parking Lot. Talk-In on 146.55

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FCC HIGHLIGHTS By Jack Kelleher, W4ZC

A Vanity Call Sign System

A News Release on this subject by the Federal Communications Commission, dated January 24, 1995, is quoted in its entirety below. (The implementing Report and Order was released on February 1st, but is too lengthy to be reproduced here. The R. & O. carries the FCC number 94-343, and is titled "PR Docket No. 93-305 — In the Matter of Amendment of the Amateur Service Rules to implement a Vanity Call Sign System." The amendments become effective March 24, 1995.)

Here is the News Release.

COMMISSION AMENDS AMATEUR SERVICE RULES TO IMPLEMENT A VANITY CALL SIGN SYSTEM (PR DOCKET 93-305).

In recognition of the strong sense of identity among amateur operators that is grounded in the call signs of their stations, the Commission has decided to offer a vanity call sign system to the amateur service community. The Commission will also resume issuing new club and military recreation station licenses. The Commission said these actions are fundamental to its commitment to putting the needs of people first in providing the services that they want.

Each new amateur station licensed by the FCC is assigned a unique call sign. An automated process selects the call sign in accordance with the sequential call sign system. Until recently, the Commission was unable to accommodate the many thousands of requests for call signs of the licensees choice. The Commission stated that one of its many steps in reinventing Government is to implement new licensing processing capabilities that make it practicable to grant such requests.

The Commission will implement the new system by using a series of four "starting gates." Gate One would allow a previous holder of a call sign to apply for that call sign or, where the holder is deceased, a close relative could apply. Gate Two would allow the 66,000 Amateur Extra Class operators, who have passed the most difficult license examinations, to apply. Gate Three would allow the 112,000 Advanced Class operators, who have passed the second most difficult license examinations, to apply; and Gate Four would open the system to any licensee, including a club station license trustee applying for the call sign of a deceased former holder. The Commission will announce the opening of each gate by a Public Notice. The first gate will open as soon as the new application form, FCC Form 610-V, is available and the Commission's licensing facility is prepared to begin processing the applications.

With respect to new club station licenses, the Commission stated that persons not already holding a club station license must first apply for and receive a license before filing anapplication with the fee collection contractor requesting that the license be modified to show a vanity call sign. However, the Commission will begin accepting applications for new club and military recreation station licenses on the date the Report and Order in this proceeding becomes effective. (Ed. note: This date is March 24, 1995)

Action by the Commission December 23, 1994, by Report and Order (FCC 94-343). Chairman Hundt, Commissioners Quello, Barrett, Ness, and Chong.

News media contact: Patricia A. Chew at (202) 418-0500. Wireless Telecommunications Bureau contact: Maurice J. Depont at (202) 418-0690.

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Bill Grenfell, W4GF a Silent Key

William A. (Bill) Grenfell, W4GF, died on January 27, 1995 at the age of 82, after a long illness. Bill was the editor of the FCC Highlights column in Autocall and in Worldradio from 1971 until the fall of 1991, when he had to give it up due to poor health.

His career with the FCC began in 1940 when he took the examination for Federal Radio Inspector and trained in monitoring techniques at the Portland, Oregon monitoring station. He was then assigned to Seattle, Washington as an Assistant Monitoring Officer for the FCC Radio Intelligence Division. In 1941 he was transferred back to Portland as the Radio Inspector. This position covered all classes of radio inspection, including ships, broadcast stations, and Amateurs on occasion.

When World War II came along, Bill joined the Navy as a Lieutenant J.G. He completed his radio and radar training at MIT, where he graduated first in his class, and earned a full stripe. Next came two stripes and a tour of duty at Navy s Bureau of Aeronautics in Washington, D.C.

In 1946 Bill left military aeronautics and returned to the FCC as a radio engineer assigned to the Commission's Frequency Allocation Division. In 1952 he became Chief of the Amateur Branch of the Amateur and Citizens Radio Division, where he ably guided the course of Amateur Radio in the U.S. until he retired in 1971.

Bill learned the code from the Boy Scout Handbook back in 1926. He was first licensed in 1930 as W7GE. In 1931 he upgraded to a Class A license and got on phone. After earning a BSEE at the University of Oregon in 1935, Bill worked for the Washington State Highway and Police Departments as a radio technician, responsible for all outside maintenance and installation.

Bill's ham activities were legend. His first rig was a 210 oscillator with a slop jar rectifier. With this equipment he was soon an active traffic handler and avid contester and DXer. He took part in five separate DX-peditions to Curacao, and many of us enjoyed his photography and talk shows of these trips. He was a member of the Potomac Valley Radio Club since 1953, serving as Secretary and Treasurer, and then President in 1955. He was a member of the A-1 operator's club; the First Class Operator's Club (FOC) and the FOC of England; and held WAC, DXCC and WAZ Awards. He was a Life Member of the ARRL and an Assistant Director of theRoanoke Division; a Life Member of QCWA; President of Washington D.C. Chapter 23, QCWA; and the first President of Vic Clark (Northern Virginia) Chapter 91 of QCWA. He held an Extra class amateur license; was also an active pilot; held a private pilot's license with instrument rating; and owned his own aircraft.

Those of us who knew Bill mourn an outstanding amateur and a fine gentleman.

Reallocations near 2.4 GHz.

The most recent Commission action was a Notice of Proposed Rulemaking issued on November 8th, 1994. In the NPRM the FCC acknowledged arguments from the Amateur Community concerning the impact of the proposed allocations on amateur activities in the sub-bands involved, which are shared by amateurs on a secondary, non-interference basis.

The ARRL filed comments and reply comments on the NPRM, which are summarized in the January 12 issue of the ARRL Letter.

In its Comments, filed on December 19, 1994, the League asked that the Amateur Service be given primary allocation status in the band 2402-2417 MHz., and that it be given at least co-primary status between 2390 and 2400 MHz. The League said that a previous government study had recommended the 2400-2402 MHz segment for amateur use, and that it would be desirable to make the entire segment 2390 to 2450 MHz amateur primary.

Reply Comments were filed by the League on January 3, 1995. They said that, with few exceptions, comments filed by others did not respond to the Commission's questions regarding the compatibility of the proposed commercial service with the amateur or other services. (The FCC had proposed maintaining a secondary allocation for the amateur service in all or part of this spectrum or, to make the amateur service the primary user in a portion of this spectrum while either maintaining a secondary allocation in the remaining portions of the bands or eliminating the other portions from the amateur service)

The FCC also sought comments on "the ability of various radio services to share spectrum with the amateur service". The League, in its reply comments, said that the bulk of comments filed were "absolutely silent" on the effect of a new proposed use on the amateur service.

Space limitations do not permit repeating the remainder of the Reply Comments.

An editorial in the February 1995 issue of QST magazine relates this particular action to the ongoing FCC program of auctioning assignments. The editorial says in part: "With so much money chasing so little spectrum, it isn't surprising that some folks who have little understanding of the radio spectrum are proposing to extend a reasonable idea in an unreasonable direction. Not content to use the auction as an assignment tool, they want to use it also to make allocations decisions." After citing a Heritage Foundation comment that "radio spectrum management . . . should be removed from the statute books" the editorial goes on to ask "Is every spectrum allocation decision to be made by using commercialvalue as a surrogate for the public interest? If so, the danger to Amateur Radio (and a host of other vital services) should be obvious."

The editorial concludes "Auctions as an assignment tool for some radio services, where their use is appropriate, is an idea whose time has come. Auctions as an allocations tool is an idea best left on the cutting room floor."

(Note: Your editor lauds the League for its forthright stand. Not only is auctioning allocations a bad idea, but it might be at odds with the regulatory objectives of the International Telecommunication Union, of which the United States is a member.)

Spread Spectrum

The FCC has just renewed the Special Temporary Authority (STA) that allows unrestricted use of spread spectrum emissions from six meters and up in the amateur bands, according to an item in W5YI Report for January 15th, from which the following is taken.

This STA was originally granted three years ago to Robert Buaas, K6KGS, and has been renewed each year. This latest renewal is significant in that it has no expiration date.

Spread spectrum technology can multiplex many low-power QSOs by hopping among frequencies in a list and by combining the data to be transmitted with fast codes. Much of the world's commercial mobile and military communication systems are embracing spread-spectrum, especially for cellular systems.

The STA authorizes work with spreading schemes and codes, power levels and various hardware implementations not otherwise permitted by Part 97. Much of the development has been performed with direct sequence and frequency hopping systems in the heavily populated 2 meter band in Southern California, demonstrating robustness and lack of significant interference. K6KGS plans more experiments in the six meter band.

Amateurs from the digital community have long been interested in revising Part 97 to permit more choices for hams in the spread spectrum technologies and codes they may use. We understand that a Petition for Rulemaking to that effect is in preparation.

The FCC renewal says in part: "... the STA and waivers granted May 26, 1993, are extended until completion of your data communications experiments. All other conditions of the May 23, 1993 authorization will remain in effect."

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AMERICAN RADIO RELAY LEAGUE REPORT

by John Swafford, W4HU

League says FCC plan wrong and inconsistent, on final arguments on 2400-MHz "auction".

In a flurry of year-end activity, the ARRL has filed both comments and reply comments on an FCC Notice of Proposed Rule Making to convert a block of spectrum from federal government to commercial use, including parts of the 2400-MHz band shared by Amateur Radio on a secondary basis with the government.

In its voluminous NPRM, the FCC went to great length to cite the strenuous arguments submitted earlier by the ARRL against the proposal.

The proposal would allocate 2390 to 2400, 2402 to 2417 (both shared by amateurs), and 4660 to 4685 MHz, to the Fixed and Mobile Services. The FCC is required by the Omnibus Budget Reconciliation Act of 1993 to adopt rules for such reallocations by February 10, 1995.

The FCC admitted during its "inquiry" phase that its allocation plan could be made difficult for several reasons, one of them being "incumbent amateur users in the 2390-2400 MHz and 2402-2417 MHz bands."

The FCC said that parties commenting on its NPRM "should address the compatibility of the proposed service with the Amateur and other services.

"We also solicit information," the FCC said, "on the degree of disruption to the Amateur service that would result if all of part of this spectrum was removed from the amateur service.

Crowding would result.

The FCC noted the League's argument that if amateurs were to lose the spectrum in question, along with 2300 to 2310 MHz, which is also threatened, the remaining 35 MHz would be insufficient for amateur satellite operations, would prevent full-duplex point-to-point operations in the 13-cm band, would eliminate weak signal operations carried out in the band, and would crown Amateur Service operations in the 13-cm band into the least desirable spectrum near the center of the ISM band at 2450 MHz.

The FCC also noted comments about the difficulty of sharing between commercial licensees and the Amateur Radio Service and that "the Commission has used the continued availability to Amateurs of the 13 cm band to justify reallocating Amateur spectrum in lower bands to commercial services [ie 220 to 222 MHz] and that it would therefore be unjust for the Commission to now allocate this spectrum for commercial uses."

On December 19, 1994, the ARRL filed comments on the NPRM, asking that the Amateur Service be given primary allocation status at 2402 to 2417 MHz, and that it be given at least co-primary status at 2390 to 2400 MHz. The League said that a previous government study had recommended the 2400 to 2402 MHz segment for amateur use, and that it would be desirable to make the entire segment 2390 to 2450 MHz amateur primary.

The ARRL also said, in its 29-page Comment, that any fixed or mobileservice station that is granted an assignment at 2390 to 2400 MHz "must be" required to protect the Amateur Service from interference and must tolerate any interference received from amateur stations.

The League asked the FCC not to make any additional allocations in the 2390 to 2417 MHz band and, instead, to grant Amateur Radio primary allocation status in that band. (Note: See ARRL Letter dated Jan 12 for additional information)

AMSAT PICKS FREQUENCIES FOR PHASE 3 SATELLITE.

AMSAT has selected final frequencies for its advanced Phase 3-D satellite, due to launch in 1996. The selections, approved by P3-D Project Leader Dr Karl Meinzer, DJ4ZC, were "carefully selected to minimize mutual interference with other amateur satellites" and were coordinated with IARU band plans, according to AMSAT Executive Vice President Keith Baker, KB1SF. Bands to be used by the upcoming satellite include 21 and 28 MHz, and 145.436, 1269, 2400, 5668, 10451 and 20048 MHz.

BRIEFS

* Word just received that in August, Frank Caswell, W1ALT, died in Beverly, Massachusetts, OM Caswell was first licensed in the 1920s, and he personally collected, recorded and documents the history of the Marconi Wireless Station at South Wellfleet, on Cape Cod (and a must visit for amateurs). He also built the replica rotary spark gap and model of the Marconi station that are on display at the headquarters of the Cape Cod National Seashore at South Wellfleet.

Among the survivors were his wife, Muriel, and two sons. (Thanks, K2LP).

- * Numbers: ARRL membership rose about one percent in 1994, new members more than making up for the inevitable attrition of deaths and drop-outs. Declining sunspots left DXCC activity flat for the year, contest entries the same, while QSLs forwarded by the ARRL Outgoing QSL Service dropped off by 18%
- * CQ Communications' 1995 Amateur Radio Almanac is out, edited by Doug Grant, K1DG, and, at more than 500 pages, is priced at \$19.95. This is the second year for this ambitious effort, changed to a larger type size and simplified format; the book is chock-full of reference material of all kinds.
- * Job openings at HQ: QST is looking for an assistant technical editor for technical articles and columns. A solid technical background, extensive Amateur Radio experience, and experience in preparing written material for publication are required. Salary range is \$28,500 to \$39,900. Send resume, a cover letter, and writing samples to Managing Editor Al Brogdon, K3KMO, at HQ.

And the ARRL/Volunteer Examiner Coordinator has an opening for an assistant to the VEC manager. Requirements include good "people skills" and the ability to work well in a team environment. Experience with personal computers is a must and an Amateur Radio license is required. Starting salary is \$20,202. Send resume to VEC Manager, ARRL HQ. EOE.

- * An all-day ARRL continuing education workshop on electromagnetic interference will take place Friday, February 3, at the Miami Hamboree. ARRL Laboratory Supervisor Ed Hare, KA1CV, will conduct the workshop, from noon to 6 PM. You will earn 0.6 Continuing Education Units for participating. Contact Rosalie White, WA1STO, at ARRL HQ, before January 30, to reserve a spot, and for more information.
- * Thank you! In late 1993 and early 1994 the ARRL conducted a fund-raiser for the Radio Amateur Satellite Corporation (AMSAT) Phase 3D project. A solicitation, paid for solely by the League, was mailed to all ARRL members, asking for donations to this important Amateur Radio project. You responded magnificently, giving more than \$197,000, which has been turned over to AMSAT-NA.

- * The new ARRL SourceBook for the Disabled is available in electronic form via CompuServe, America Online, ARRL's Hiram BBS, and the InfoServer via Internet at <info@arrl.org>. The SourceBook describes sources for those helping the disabled both with licensing and operating needs, and was funded by The ARRL Foundation.
- * Nominations are open for the (\$1000) 1994 Hiram Percy Maxim Memorial Award. If you know a bright, young (under 21) amateur with leadership qualities, nominate her or him through your ARRL section manager. The deadline is March 31, 1995. Last year's winner was 17-

year-old Jonathan M. LeBretton, N1MJM, of Plymouth, Massachusetts.

- * Page 106 of February QST will carry a call for nominees for the fourth annual Philip J. McGan Award, for amateurs involved in public relations activities promoting Amateur Radio. The award is sponsored jointly by the ARRL and the New Hampshire Amateur Radio Association. Deadline for nominations is May 31, 1994.
- * HQ employee Glenn Swanson, KB1GW, has transferred from ARRL/VEC to the Educational Activities Department, as educational programs coordinator; his responsibilities include the Scout program, SAREX and the educational support programs.
- * In order to better serve its listening audience, W1AW will conduct a survey, to be published in March QST. It will identify who's listening; what kind of bulletins are being listened to (ARRL, DX, Keplerian, propagation, space, special); what modes and times are listened to; reception quality and interference quality; possible frequency changes for W1AW; and "Do you have an active e-mail account and what kind?" (and do you use it to get W1AW bulletins?).

On a related topic, visitors to W1AW, despite having available all manner of digital modes to use, still mostly gravitate toward CW and SSB (and HF).

- * Atop the ARRL HQ building a new Force 12 model C-3 triband yagi has replaced a long-serving Sommer beam, to serve the lab and club station, W1NF. W1AW Chief Op Jeff Bauer, WA1MBK, did the installation. Next will be a separate beams for 17 and 12 meters, plus antennas for the lower HF bands.
- * Correction: In our December 14 issue we incorrectly identified the late Fred Senk, cousin of New York Governor George Pataki, as K2UYQ. His call sign was W2UYQ (Thanks, WI3U).

And eagle-eyed reader Carl Zelich, AA4MI, caught this one, also inthe December 14 issue: the new Federal Communications Commission's Wireless Telecommunications Bureau has seven divisions, but we listed only six. The seventh is Policy, which will, the FCC says, "based on major technical, economic, and regulatory developments, legislative actions, and Commission and court decisions, propose and develop Commission rules and policies to govern wireless telecommunications services."





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Hidden Antennas in Small Spaces

These days restrictive housing covenants prohibiting "outside" antennas are commonplace. Pick a nice place to live and you can't have a "good" antenna to enjoy your hobby. Many hams give up in the face of these restrictions, but it doesn't have to be. There are some solutions that might make it practical to satisfy everybody, you just need a little imagination. Since all late model rigs only accept a 50 Ohm load for efficient operation, that's the first limitation. Whatever antenna you drive will have to look like a 50 Ohm impedance. Of course, with a matching network or antenna tuner you can make almost anything look like 50 Ohms. It may not radiate very well, but it will accept power.

At VHF (144 to 440 MHZ) a "J"-pole is easy to make and if made out of TV twinlead fed with RG-58U and hung on the back of a chimney is practically invisible. A short feed line (or a high quality cable) will keep the losses low. Outside antennas are almost always more effective than insiders, and, the higher the better. The 2 meter J-pole is less than 3 feet long, but will allow you to work a lot of local repeaters. Just tuck it in the highest most inconspicuous spot you can find away from metal.

For HF, a shack in the basement lets you feed the base of a thin wire vertical with coax. If you use something like #14 enameled wire against a dark wall or parallel to a plastic downspout you'll never see it. It might take a little ingenuity to hang it

but it won't go well beside metal siding. A brick chimney is ideal. I've heard of using the metal flue from a gas water heater (insulated from the heater) as a radiator. Another possibility if you have plastic down spouts is to replace one of them with a metal one and use that. A quarter wave vertical on 40 meters is only 33 feet.

Then there is always the attic crawl space. When you think of a dipole most of us think of a straight horizontal wire. If you have the space, fine, but dipole specifies length. It's perfectly alright to let the ends drop if the wire is longer than the span of the inside of the roof. Just insulate all of the supports. I've seen the wire mounted as a series of Vee"s from floor to ceiling to stretch the space available to the length of the wire. All of these things will affect the radiation pattern of course but they will at least let you have a little air time. To resonate a straight piece of wire shorter than a half wave (to get to that magic 50 Ohms) you can wind half the length of wire required on a coil form on each end making an end-loaded dipole. If you look at ham antennas for mobile operation there are short "base" loaded, "center" loaded (thats what that little coil is on a cellular telephone stub antenna on a car) and then there are "top" loaded designs. Use a good material for the coil form because the voltage at the end of a dipole can be high.

If you can do a pretty good job on 40 meters with a 6 foot whip on a car, you ought to be able to do better even with a "compromise" antenna installation, especially if it's as high as you can mount it.

Back to the antenna tuner. This is a device that uses adjustable inductance and capacitance to transform one impedance to another. There are plenty of manufacturers who make a large variety. If you insert one of these into the antenna feed line it can adjust almost any length of antenna to a 50 Ohm impedance level. In previous columns I have said that these devices will let you tune up onany band with the same piece of wire. I have a friend whose invisible antenna is a wire wrapped on insulators around the railing on the deck out back and with the tuner works out rather well on 20 meters. Think about it...there is a way.

DX DX DX

By John Kanode, N4MM

UPCOMING DX CONVENTIONS

Each spring there are several major DX conventions or programs being held across the country. The DX program held at Roanoke Division Convention in Charlotte on March 11 and 12 is one of the first. Each year there are several top notch DX presentations held at this convention. For more info on this event, contact N4MM. In April of this year there are three DX events. The first is DXPO '95 which will be held in Atlanta, GA on April 8 and 9. This is a two day DX only event. This is being held in conjunction with the HAM RADIO '95 convention. W4QO can supply info on this event. The second event in April is the international DX Convention at Visalia, CA on April 21, 22 and 23. For more info on this convention contact WA6O. Of course the last one for April is the large DX activities at the Dayton Hamvention. A large DX dinner is held on Friday evening, with good program and prizes and on Saturday, there is a large DX program at the hamvention site. Each year, over 1000 Dxers have attended the program at Dayton.

UPCOMING DX CONTESTS

ARRL International DX Contest SSB March 4-5
Bermuda Contest March 18-19
CQ WW SSB WPX Contest March 25-26

TIDBITS

To celebrate the 50th anniversary of VERON, the Dutch national Amateur Radio Society, VERON club stations (PI4) may use the special prefix PI50 throughout the year. Individual stations may add a 5 to their normal prefix for the celebration, but only during the PACC Contest on February 11 - 13 and during the month of May. Example, PA3MM may sign PA53MM.

4U1UN QSL CARD UPDATE: The backlog on 4U1, 4U47 and 4U48 cards are complete as of January 20th. The 4U49 cards are being processed and will be released as soon as all the cards are filled out (should be done by February 10). If you do not get your cards by the end of the year, the 4U1UN station will be celebrating its 50th anniversary and will be signing 4U50UN.

A Dxpedition to Navassa Island is being planned for late April or early May with five operators. There will be emphasis on the lower bands and some satellite activity. Operators mentioned so far are W5IJU, KB4VLO and K0IYF.

The CQ Magazine's special /50, two week operating event went well. Over 50 different /50 stations were active on many bands handing out contacts for the special award. N4MM/50 made about 1000 QSO's.

The DXAC and the CAC have new chairman and board liaisons for 1995.

DXAC Chairman, Garth Hamilton, VE3HO
DXAC Board Liaison, Vice Director Bruce Frahm, K0BJ
CAC Chairman, J.P. Kleinhaus, AA2DU
CAC Board Liaison, Vice Director Rick Roderick, K5UR

TRAINING CLASSES

New Editor

JOHN FORREST WZ4A New Editor 6111 Burnett St.

Alexandria, VA 22310 (703)971-3905

Please send announcements for training classes and club training contacts to WZ4A at the above address. Deadline is the 25th of the 2nd month prior to the Autocall publication date (e.g., 25 November for the January issue).

CLASS ANNOUNCEMENTS

None as of deadline for publication.

CLUB TRAINING CONTACTS:

Alexandria RC	Rich Adamy KA4GFY	(703)644-3920
Anne Arundel RC	Tony Young WA3YLO	(301)262-1917
Arlington ARC	Fred Bardsley WD4DHW	(703)533-0372
Antietam Rad Assn.	Robert Long KD3JK	(301)824-5132
Baltimore RATS	Joe Chidester W3SHZ	(410)602-0353
Baltimore ARC	Essex Community College	(410)780-6854
Fauquier ARC	Neil Spokes AB4YK	(703)364-3861
Frederick ARC	Steve Bauman W3FOA	(301)662-4552
Herndon Rep't Gp	Michael Weber WB8RDN	(703)450-2304
Laurel ARC	Pub Reaver W3DQI	(301)498-6293
Madras	Larry Ziecheck	(301)984-6112
MD Mobileers ARC	John Baugus N3JME	(301)551-3161
Montgomery ARC	Rocky Jones KC4UXO	(301)216-5210
Mt. Vernon ARC	John Forrest WZ4A	(703)971-3905
NASA/Goddard ARC	Vikki Gigante KA3PVS	(301)249-2609
Ole VA Hams ARC	John Fritsch N4YOB	(703)791-5995
Pentagon ARC	David Boyd K9MX	(703)659-6241
St. Marys Co. ARC	Pete Butt WA3UMY	(301)862-2214
Shenandoah Val ARC	Guy Black W4PSJ	(703)722-4952
Southern MD ARC	Vic Curtis WA3YUV	(301)888-1388
Southern Pax ARC	Dwayne Kincaid WD8OYG	(301)586-2177
Springfield Est ARC	Will Schmitt KD4CNX	(703)768-5709
Stafford Adult Ed	Jerry Mullinix AC4HK	(703)659-3905
Sterling Park ARC	Forrest Snyder N4UTY	(703)430-4149
Tri-County ARC	John Creel WB3GXW	(703)572-5124
Vienna Wireless	Paul Wilkins AB4CY	(703)560-2779
Woodbridge Wireless	Cliff Deel KO4FM	(703)491-0841
	- The state of the	(/03/1/1-0041

If your club has any Training Classes or VE Exams coming up and would like them published in Auto-Call magazine, please send them to John Forrest at the above address.

FOUNDATION FOR AMATEUR RADIO

VOLUNTEER EXAMINER COOPERATIVE

JOHN FORREST WZ4A

6111 Burnett St. Alexandria, VA, 22310 (703)971-3905

NOTICES:

- * Effective July 1, 1994, the General Class written exam question pool (Element 3B) was changed. Be sure to use study materials appropriate for the current question pool.
- * Copies of the complete (as of date) 1995 VEC Exam schedule from the AUTOCALL database are available. To obtain a copy, please send a large, self-addressed envelope with sufficient postage to cover 10 letter-size pages along with \$1.00 to cover copying costs to WZ4A at the above address.
- * The maximum exam fee has been raised by the FCC to \$5.90.

SCHEDULE OF EXAMINATIONS 1995

March 5, 1995 (Sunday)

Landover, MD - D.C.M. ARC (ARRL VEC) Walk-In Contact: Freddie Battle NG3G (202)546-9348 (Day) (301)773-2898 (Evening)

Elkins, WVA (Mount. ARC VEC) Walk-In Contact: Walter Corley KF8SX (304)637-0506

March 11, 1995 (Saturday)

Alexandria, VA - Mt. Vernon ARC (Laurel VEC) Walk-In Contact: Frank Mackey N4GUS (703)455-1510

Davidsonville, MD - Anne Arundel Radio Club (Laurel VEC)
Walk-In
Contact: Bob Israel WC3I (301)262-5083

March 18, 1995 (Saturday)

Laurel, MD - Laurel ARC (Laurel VEC)
Pre-Registration Desirable, Limited Walk-In
Contact: John Creel WB3GXW (301)572-5124 after 6 PM

Smithsburg, MD - Mid-Atlantic DX & Rptr Assn. (ARRL VEC)
Pre-Registration Requested
Contact: J.M. Vaia WB8VBW (301)416-8447 Box 110

March 24, 1995 (Friday)

The Pentagon, Arlington, VA - Pentagon ARC (ARRL VEC)
Pre-Registration Encouraged
Contact: Jim Fox KE4EID (703)756-8994 (Work)
(703)931-6523 (Evening)

March 28, 1995 (Tuesday)

Glen Burnie, MD - Maryland Mobileers ARC (Laurel VEC)
Pre-Registration Requested, Walk-In limited
Contact: Jerry Gavin NU3D (410)761-1423

April 2, 1995 (Sunday)

Landover, MD - D.C.M. ARC (W5YI VEC) Walk-In Contact: Freddie Battle NG3G (202)546-9348 (Day) (301)773-2898 (Evening)

April 8, 1995 (Saturday)

Alexandria, VA - Mt. Vernon ARC (Laurel VEC) Walk-In Contact: Frank Mackey N4GUS (703)455-1510

Cumberland, MD - Mountain ARC (Mount. ARC VEC) Walk-In Contact: Leo Patterson KQ8E (304)289-3576 Gay Rembold W3DFW (301)724-0674

Davidsonville, MD - Anne Arundel Radio Club (Laurel VEC) Walk-In Contact: Bob Israel WC3I (301)262-5083

April 15, 1995 (Saturday)

Laurel, MD - Laurel ARC (Laurel VEC)
Pre-Registration Desirable, Limited Walk-In
Contact: John Creel WB3GXW (301)572-5124 after 6 PM

Smithsburg, MD - Mid-Atlantic DX & Rptr Assn. (ARRL VEC)
Pre-Registration Requested
Contact: J.M. Vaia WB8VBW (301)416-8447 Box 110

<u>April 20, 1995</u> (Thursday)

Towson, MD - Baltimore ARC (ARRL VEC) Walk-In Contact: Bob Kennick WB3HNV (410)426-8255 Mailbox #3468

April 25, 1995 (Tuesday)

Annapolis, MD - Maryland Mobileers ARC (Laurel VEC)
Pre-Registration Requested, Walk-In limited
Contact: Lois Turner KA3VVQ (410)647-4178

April 29, 1995 (Saturday)

Spotsylvania, VA - Fredericksburg VA VE Team (ARRL VEC)
Walk-In
Contact: Kelly Shaw AC4MB (703)891-5581
Carolyn Cavanagh AC4SK (703)373-7076

May 7, 1995 (Sunday)

Landover, MD - D.C.M. ARC (ARRL VEC) Walk-In Contact: Freddie Battle NG3G (202)546-9348 (Day) (301)773-2898 (Evening)

Elkins, WVA (Mount. ARC VEC) Walk-In Contact: Walter Corley KF8SX (304)637-0506

May 13, 1995 (Saturday)

Alexandria, VA - Mt. Vernon ARC (Laurel VEC) Walk-In Contact: Frank Mackey N4GUS (703)455-1510

Davidsonville, MD - Anne Arundel Radio Club (Laurel VEC)
Walk-In
Contact: Bob Israel WC3I (301)262-5083

Culpeper, VA - (ARRL VEC) Pre-Registration Preferred Contact: Bill Brown AC4KP (703)547-3089 Gary W0QDP (703)854-6187

May 14, 1995 (Sunday)

Antietam Radio Assn (Greater Hagerstown Hamfest) (Mount. ARC VEC) Pre-Registration Desirable Contact: Leo Patterson KQ8E (304)289-3576 Gay Rembold W3DFW (301)724-0674

May 20, 1995 (Saturday)

Laurel, MD - Laurel ARC (Laurel VEC)
Pre-Registration Desirable, Limited Walk-In
Contact: John Creel WB3GXW (301)572-5124 after 6 PM

May 20, 1995 (Saturday)

Smithsburg, MD - Mid-Atlantic DX & Rptr Assn. (ARRL VEC)
Pre-Registration Requested
Contact: J.M. Vaia WB8VBW (301)416-8447 Box 110

May 23, 1995 (Tuesday)

Glen Burnie, MD - Maryland Mobileers ARC (Laurel VEC)
Pre-Registration Requested, Walk-In limited
Contact: Jerry Gavin NU3D (410)761-1423

May 26, 1995 (Friday)

The Pentagon, Arlington, VA - Pentagon ARC (ARRL VEC)
Pre-Registration Encouraged
Contact: Jim Fox KE4EID (703)756-8994 (Work)
(703)931-6523 (Evening)

EXAM FEES:

- * Check for appropriate exam fee. Fees and modes of payment for individual VECs and exam teams may vary.
- * ARRL VEC exams cost \$5.90
- * Laurel VEC exams are free
- * Mountain VEC exams are free
- * W5YI VEC exams cost \$5.90

BRING TO EXAM:

- * Picture identification
- * Completed FCC form 610 (most VE teams will supply at exam)
- * Original and a copy of current FCC amateur radio license
- * Originals and copies of all active certificates of successful completion of prior exams
- * Exam fee (check or cash depending on VE team)

"GRANDFATHER" CREDIT FOR ELEMENT 3B (GENERAL WRITTEN):

* If you presently hold a Technician class license which was first issued prior to March 21, 1987, you may be grandfathered for Element 3B (General class written exam) by presenting the original and a copy of the license dated prior to March 21, 1987 to the VE team. It is your responsibility to prove that you are entitled to grandfathering. Do not lose your original license!

RULES FOR SUBMISSIONS TO THE FAR VOLUNTEER EXAMINER COOPERATIVE:

- 1. All submissions must be in writing
- 2. Date and day of week must be specified for each exam date
- 3. Point of contact and phone number must be specified
- 4. Sponsor and location must be specified
- 5. VEC must be specified
- 6. Exam dates up to 12 months in advance will be accepted
- 7. Deadline for submission is 25th of the 2nd month prior to publication date (e.g., Sept. 25 for November issue)

1995-1996

National Capitol ARES Council Public Service Calendar

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20	GW	Birthday	Parade	(NVA-	ALEX)

March

- 11 St. Patrick's day parade (NVA-ALEX)
- 25 Boy Scout 1/2 Marathon (DC)

April

- 8 Cherry Blossom Parade (DC)
- 15 Bull Run Run (NVA-FFX)
- 23 GW Parkway 15K (NVA-MTV) MS Walkathon Reston (NVA-FFX)
- 29 Dogwood 1/2 100 (NVA-D1)

May

- 6 Apple Blossom Parade (NVA-D1)
- 13 American Lung Association Bikathon (NVA)
- 14 American Lung Association Bikathon (NVA)
- 20 MS 150K Bike-athon (NVA)
- 21 Crystal City 10K (NVA-ARL) MS 150K Bike-athon (NVA)

June

- 3 Old Dominion 100M Horse (NVA-D1)
- 4 American Heart Association 10 K race (DC)
- 6 Hurricane NANA Exercise (MEMA)
- 9 Alex Waterfront Festival (NVA-ALEX)
- 10 Alex Waterfront Festival (NVA-ALEX)
- 11 Alex Waterfront Festival (NVA-ALEX)
- 24 Field Day
- 25 Field Day

July

4 4th of July on the Mall (DC)
July 4 Mt Vernon (NVA-MTV)

September

- 17 MS 1/2 Marathon (DC)
- 23 Children's Festival (NVA-FFX)
- 24 Children's Festival (NVA-FFX)

October

Auto-Call

- 1 Westmore School Run (NVA-FFX)
- 7 Claude Moore Farm Park (NVA-FFX)
- 8 Clifton Day (NVA-FFX)
 - Claude Moore Farm Park (NVA-FFX)
- 14 Simulated Emergency Test (MDC)
- 22 The Marine Corps Marathon

The NCAC meets every Sunday at 9:00 P.M. on 146.91- MHz
For more information call:
Hani Raad / AA3EI (202)223-3925

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SILENT KEYS

Bill Grenfell - W4GF

One of Amateur Radio's best known and best loved Amateurs has joined the ranks of Silent Keys. Bill Grenfell - W4GF had been ill for the past several years and had been in Iliff Nursing home in Dunn Loring, Virginia since 1992. Death came quietly in his sleep on January 27. He was 83.

Bill was first licensed in 1930 with the call W7GE. He entered Government service with the FCC in 1941 and served in the Navy during WW-II. After the War he returned to the FCC to take a position of engineer in the Frequency Allocation & Treaty Division and later became assistant chief in the Frequency Utilization and Requirements branch, then Chief of the Amateur and Citizens Radio Division.

Bill was an ardent contester and DXer and took part in several DXpeditions. He served as an Assistant director of the ARRL Roanoke Division and in 1974 received the prestigious Roanoke Division Service Award. He was the president of PVRC in 1955 and served as the first president of QCWA, Vic Clark Chapter 91 in Northern Virginia. He was also an active pilot, owning his own aircraft and holding a private pilots license with instrument rating. Bill made many contributions to the promotion and advancement of Amateur Radio. He will be missed by a host of friends.

Margaret Cauffield (Meg) - W3UTR

Margaret Cauffield (Meg) - W3UTR, died January 10, 1995 from cardiac arrest at age 72. Meg was a member of the Washington Area Young Ladies Amateur Radio Club (WAYLARC) for many years. She was ar active amateur radio operator for 40 years. Meg Cauffield was born September 5, 1922 in Fairfield Township PA - she was born with osteogenesis imperfecta (brittle bone disease) and schooling was spent at home. Later she attended the Woodrow Wilson Rehabilitation Center in Fisherville, VA in the 1950's. She spent her life in a wheelchair. After graduation she became a secretary with USHEW in Washington and later with the Department of Education where she worked for 32 years. While in Washington she took driving lessons and learned how to drive a car. Her car had devices near the driver's wheel so she could use her hands for the gas and brake pedals - so she did some driving for quite a few years. Her sister and brother-in-law were visiting her at the time of her death. The funeral was held in Ligonier, PA where her family lived.

The Shennandoah Valley Amateur Radio Club Presents

A DIGITAL SEMINAR FOR PACKET RADIO

The seminar will be conducted by KANTRONICS, INC. at the HAGERSTOWN JUNIOR COLLEGE on March 18th, 1995 beginning at 8:00 AM. The seminar is free and open to all Amateurs. Please make your reservation with Irv Barb, KD4BHV @ the WB4D BBS or write to SVARC at P.O. Box 139 Winchester Virginia, 22604. There will be drawings for free door prizes with the first prize being a Kantronics TNC and three other prizes of \$20.00 gift certificates. Please register soon space may be limited

PUBLIC INFORMATION COORDINATOR MARYLAND/DC SECTION

Melvin J. Morenz 416 Brooks Court Glen Burnie, MD 21060-7616

Voice: (410) 760-9426 Packet: N3EKZ @ WB3V.MD.USA.NA

NEW PUBLIC INFORMATION OFFICER

Congratulations to Donnie Sue Mulligan KB3AOO, who has been appointed the Public Information for the Antietam Radio Association (ARA), Hagerstown, MD, and welcome to the growing ranks of PIO's in the MDC Section.

She is currently the Assistant Editor for the ARA's newsletter, "QRN", and also writes an excellent column for ARA here in Auto-Call.

If you have items of interest in the Hagerstown area, please contact Donnie Sue as soon as possible. She may be reached via telephone at: PH: (301) 582-2984 or, by mail at: 17416 Lexington Avenue Hagerstown, MD 21740.

WORLD RADIOSPORT TEAM CHAMPIONSHIP

(Washington - Jan 3, 1995) The WRTC-95 Administration announced on January 3, 1995 at the Frankford Radio Club (FRC) will participate in the coordination of the WRTC-95 operator/participant applications. WRTC-95 is pleased to be able to call upon the expertise of the many years of contesting experience within the FRC.

Preparations are well under way for the July 8-9, 1995 competition.

Capitol College, in Laurel, Maryland will have a portion of their on-campus dormitory facilities available to house many of the participants from overseas.

Applications for Washington-area host stations are now being processed. An application form follows this article. Some of the benifits of being a hos station include: first option to buy the equipment used during the contest that is supplied by the commercial venders andthey will receive a placque in recognition of their support for the contest.

Many Washington/Baltimore area Amateur Radio clubs will help with the many arrangements necessary for this major operating event. Clubs and individuals are still desired to contact Brian Skutt ND3F at 3421 Blackberry Lane, Ellicott City, MD 21042, (PH: (410) 531-6596 to volunteer their support for communications, transportation or entertainment (see previous issues of AUTO-CAll)

The operator/participant applications will soon be available. The rules for WRTC-95 are currently available. Operators wishing to receive an application or the rules should send an SASE with two units of first class postage for each request to WRTC-95 Administration, c/o Hayman Systems, 14700 Sweitzer Lane, Laurel,

MD 20707-5905, (FAX 301-470-1580).

Many advantages will be available to the commercial in- kind/equipment donors and to the Amateur Radio-related businesses which will sponsor this event. Companies wishing more information concerning WRTC-95 Charter Sponsorships and other commercial capabilities of WRTC-95 should contact Brian Skutt, ND3F, 3421 Blackberry Lane, Ellicott City, MD 21042, (PH: 410-531-6596).

Questions and comments are solicited and may be directed to Bill Hider, N3RR, Publicity Chairman, WRTC-95 (PH: 301-424-2707), E-MAIL: N3RR@aol.com, or via the Packetcluster, or to either of the cochairmen: Howard Leake, W6AXX, Co-Chairman, 4744 Gawain Drive, Ellicott City, MD 21043-6710, (PH: (410) 465-7008, or Eric Scace, K3NA, Co-Chairman, 10701 Five Forks Road, Frederick, MD 21702-1674 (PH: (301) 293-2448).

HOST STATION APPLICATION

NAME	CALLSIGN
ADDRESS	PHONE
CITY	STATE ZIP

Please list your station capabilities by band. List antenna type, height above ground, and type & approximate length of feed line. For commercial antennas, list make and model (HyGain TH-3JR at 35', 50' 7/8" heliax). For home brew antennas, give number of elements and boom length (6 el quad 48' boom at 150', 300' Radio Shack RG-58U).

10M:

15M:

20M:

40M:

80M:

160M:

When was your last antenna maintenance?

Are your antennas switch or relay selectable? yes no

Do you use an antenna tuner with any of your antennas? yes no If yes, please describe below or back of page.

Do you have space to erect a wire or Marconi antenna for the receive only position? yes no

Do you have an extra transmatch or similar device that could be used with the receive only wire antenna? yes no

Briefly describe the terrain around your station. Are you on a hilltop? On a ridge? In a hole? On a hillside? In what direction(s) does the ground slope up or down from your location?

Do you have an operational packet station? yes no

If no, do you have a vertically polarized 2 meter antenna? yes no

If yes, is it installed? yes no

Do you have a 2 M FM set available suitable for packet operation? yes no If yes, make/model?

Is it suitable for FM repeater use? yes no

Do you have a TNC available? yes no If yes, make/model?

Do have available IBM compatible PC? yes no
If yes, how many? Give make and model with number of parallel and serial ports for each.

Do you have available a VCR? yes no
If yes, audio: stereo or monaural

For information only: Your transceiver(s)
Linear(s)

Do you have TVI problems? yes no
If yes, what bands with what power?

Can your operating room accommodate comfortably 2 operating positions with ancillary equipment and provide space for a referee? yes no

Would you find smoking in the operating room objectionable? yes no

Mail completed application to:

Bill Leavitt, W3AZ, Chairman of Site Committee 1411 Laurel Drive Accokeek, MD 20607-9611

COMMUNICATIONS OPPORTUNITIES

With spring in the air and everyone desiring to get outside after being cooped up all winter, now is the time get rid of your "cabin fever", review your clubs communications capabilities with your club, and discuss offering your communications expertise to help others. Contact your city/town officials and offer your assistance for such things as:

- spring marathons
- races
- parades

- other special events

Some clubs are fortunate to be extremely active all year with events each month that afford these opportunities and at times require assistance from other clubs. Other clubs are in areas where there is little activity which provides only limited opportunity to provide communications support. In these cases, you will need to actively "seek out" your opportunities.

One of the hidden reasons for providing communications support for parades, races and so on, is to practice working together as a cohesive team to build up your communications expertise and confidence so that when the time comes to provide communications support for a real "natural disaster", you will "be prepared".

Mistakes made during races and parades are usually not life threatening and you have time to correct your mistakes without feeling pressured. During a communications event involving a natural disaster, the pressure may be high and you will need to be operating at your peak efficiency. If you have not practiced during parades, races, marathons, etc., you will NOT be prepared for the real thing.

Volunteer your expertise for the next parade or event and consider joining your local ARES/RACES organization. If you do not know who to contact give me a call or drop me a packet message.

ARRL MARYLAND STATE CONVENTION

The Greater Baltimore Hamboree and Computerfest, sponsored by the Baltimore Amateur Radio Club (BARC), will be the host for the ARRL Maryland State Convention. This major 2-day is the largest event on the East Coast and among the top 10 largest events in the U.S., will be held on March 25th and 26th at the Timonium Fair Grounds, Timonium, MD.

For more information on the Greater Baltimore Hamboree and Computerfest, call: (800) HAM-FEST. For Baltimore Amateur Radio Club voice mail/information, call: (410) HAM-TALK.

ATLANTIC DIVISION HAM OF THE YEAR NOMINATIONS SOUGHT

Nominations are now being sought for the 1995 awards to be presented at the ARRL Atlantic Division Convention. The Convention is held in association with the Rochester, NY Hamfest, May 19-21, 1995. The awards are commemorated by handsome plaques to be presented at the Hamfest banquet.

"Amateur of the Year" nominees should be outstanding all-around Amateurs from the Atlantic Division with a strong record of service to the Amateur community. An award for lifetime service to Amateur Radio, the "Grand Ole Ham", is open to Atlantic Division OMs and YLs who have been licensed at least 30 years or are

at least 50 years of age. The Atlantic Division "Technical Achievement" award may be presented to an individual or to a group.

Complete information on the awards and nomination procedures is available from the Rochester Hamfest, 300 White Spruce Blvd., Rochester, NY 14623 (telephone during regular business hours at 800-724-8515 or 716-424-7184). The deadline for nominations is April 1, 1995. (ARRL Field Forum (Volume 11, Number 1) dated January 1995)

MAXIM MEMORIAL AWARD: NOMINATIONS OPEN

Headquarters is in the receive mode for nominations for the Hiram Percy Maxim Memorial Award. The award is given annually to the licensed radio amateur under the age of 21 whose accomplishments and contributions are of the most exemplary nature within the framework of Amateur Radio activities, including, but not limited to, the following:

- 1. Participation or leadership in organizational affairs at the local or national level;
- 2. Technical achievement;
- 3. Operating record;
- 4. Recruitment and training of new amateurs;
- 5. Public relations activities.

In keeping with the tradition of the award when it was first established in 1936, formal nominations are made by Section Managers. Suggestions and supporting information, including the endorsement of ARRL-affiliated clubs and elected or appointed League Leadership officials, should be submitted with the nomination. An award panel will review the nominations received and select the winner. The prize consists of a cash award, a suitably engraved plaque, and other. The winner will attend an ARRL convention at which a formal presentation will be made.

Nominations should document as thoroughly as possible the Amateur Radio achievements and contributions of the nominee during the previous calendar year. Additional information concerning the character of the nominee should be as complete as possible.

The award is intended to provide a tangible award to those deserving young amateurs who contribute their time, skills and energies daily through their commitment to Amateur Radio. As models for their peers, and inspirations to us all, these fine young people are highly visible boosters of Amateur Radio awareness. We must continue to recognize and encourage their hard work and contributions at every opportunity.

Nominations from you must be sent to your Section Manager. Nominations must be received at Head-quarters from Section Managers by March 31, 1995. There is no limit to the number of nominations you may make. For more information, contact Rick Palm, K1CE, Field Services Manager, at ARRL Headquarters. (ARRL Field Forum (Volume 11, Number 1) dated January 1995)

73, Mel N3EKZ

ANNOUNCING THE 1995 GREATER BALTIMORE HAMBOREE AND COMPLITERFEST

HOST TO THE

ARRL MARYLAND STATE CONVENTION



SATURDAY, MARCH 25 AND SUNDAY, MARCH 26 TIMONIUM FAIR GROUNDS TIMONIUM, MARYLAND



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Sponsored by: The Baltimore Amateur Radio Club, Inc.

Antietam Radio Association W3CWC P.O.Box 52, Hagerstown, MD 21741 PRESENTS The 1995 GREAT HAGERSTOWN HAMFEST and Computer Show ARRL Approved

Sunday May 14th, 1995 Hagerstown Junior College Atheletic and Recreation Center

Admission \$5.00 per person, Children under 12 admitted free.

TAILGATING:

A spacious area will be available near the Recreation Center. Spaces will be available for \$5.00 each. Each tailgater must have paid for a general admission ticket before obtaining a tailgate space. Spaces will be available on a first come - first served basis. There will be no reserved Tailgate Spaces.

INDOOR VENDORS:

A large indoor area awaits for commercial dealers and for those wanting a weatherproof area for their sales. Tables are available for \$20.00 each, and are available for \$15.00 each in advance. Payment, in advance only, will reserve your tables. There is a limited number of electrical outlets available, and you will be responsible for your own electrical cords. To reserve an indoor space, or for Hamfest information, call Fred Bailey, N3HTN at 301-416-8079 or 301-714-0688, (Amateur Radio of Hagerstown). Most major credit cards accepted for pre-registration.

VE Exams by the Mountain ARC VEC. Pre-registration not necessary, but would be appreciated. Exam info 304-289-3576.

Anne Arundel Radio Club

Meetings: 8 PM 1st and 3rd Thursdays, Davidsonville Family Recreation Center, Queen Anne Bridge & Wayson Roads off MD Rt. 214 near

Annapolis.

**Con-The-Air: 2030 Thursdays when there is no club meeting on 147.705/105. Tuesdays at 2030 local time on 28.410. Wednesdays at 2000 on 444.400. The Chesapeake Weather & Traffic Net on 147.705/105 at 1100 and 1500 every weekend day and public holiday from April 1 to November 15. MSN (Maryland Slow Net) every evening at 1930 on 3.7170 MHz.

** Address: P.O. Box 308, Davidsonville, MD 21035 ** Information: Margaret (Holly) Bevan, 410-923-0229

The 1995 Awards Dinner on January 20th lived up to the new name which was given to the Club's annual get-together at the Bay Ridge Inn. It was formerly called the Installation Dinner. Fifty-eight attendees enjoyed a great evening of camaraderie and excellent food.

The immediate ex-president, Bob Israel/WC3I, handed out six plaques and six certificates for outstanding service to the club. He, in turn, received a plaque from President Dick McKelvie/KE3HQ for outstanding work during two terms as Club president and for his extensive work in VE Testing.

Other plaque winners were:

-Jerry Herman/N3BDW and Tony Young/ WA3YLO for many years of organizing and teaching the Novice Classes.

-Oscar Ramsey/NV3G for his many years of "elmering" would-be-hams and club members striving to upgrade.

-Jim Suite/W3AAE for his long-term dedication to public service events and behind-the-scenes jobs at the clubhouse.

-John (Buck) Watson/KC3Y for his extended, outstanding work with the Maryland Slow Net.

-John Williams/K8JW for his sustained technical support and guidance, especially with the club repeaters.

Certificate were awarded to:

-Nancy Alley/NT3Z., for exemplary ..work in emergency communications and in VE Testing.

-Margie Currey/KA3PQP for her organization and

oversight; of the Weather Net.

-Katherine Stephens/N3PXG for her editorship of the Ham Arundel News during the past year.

-Bob Usher/WU3E for his work as president of DFRC and for representing AARC in that group.

-Dan Weisenburger/KW4T for his enthusiasm and efforts to build a new interest in contesting among club members.

-Barbara White/N3OBU for her superb work as official club photographer.

At the clubhouse on January 14th, Bob Israel/WC3I, Oscar Ramsey/NV3G and Charlie Tiemeyer/W3RMD gave 33 tests to 18 persons. Seventeen tests were passed with 10 upgrades. Other members of the testing team were: Jeff Smith/N3OKY, Herb Elkin/KA3FDO, Robert Kammer/N3POX, Lew Hendrixson/N3IJK, Bettye Tiemeyer/K3VRZ and Holly Bevan/N3BMB.

Reg Genola has upgraded to Advanced. Rick Barnes now has the call KE3QI.

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AMSAT

The Radio Amateur Satellite Corporation

- * Local Meetings: Semiannual in March and September
- * VHF FM Net: Sunday at 9 p.m. on 146.835 MHZ FM WA3NAN/R, Greenbelt, MD except on holiday weekends.
- ** Information: NCS Pat Kilroy, WD8LAQ, by packet radio: WD8LAQ @ WB3V.MD or by Internet: wd8laq@amsat.org

AMSAT is a non-profit, scientific and educational organization incorporated in Washington, D.C. with headquarters in Silver Spring, Maryland. Everyone is welcome to join AMSAT and to become actively involved in the support and operation of the amateur space program. If you would like additional information then you may write to: AMSAT Headquarters,, PO Box 27,, Washington, D.C. 20044. Or you may telephone headquarters at 301-589-6062.

RS-15 NEWS. The new RS-15 satellite is creating a lot of excitement! Listen between 29-350 and 29.353 MHZ for its beacon. When you hear it coming in strong, tune between 29.354 and 29.374 for CW contacts or between 29.374 and 29.394 for SSB contacts. The uplink is on two-meters, between 145.854 and 145.894 MHZ. We get seven good passes per day and average about a half-hour per pass!

The SSB voice quality is sometimes "wavering" and difficult to copy. This is due to the effects of the spacecraft spin, called "spin modulation", and the use of linearly polarized antennas on RS-15. You will notice a much better signal quality on some, stations who are likely using a circularly polarized uplink antenna.

Assuming there is keen interest, I will include more bits of information about communicating through RS-15 in future columns.

NEXT SAREX. The Shuttle Amateur Radio Experiment (SAREX) will be aboard Endeavour for Mission STS-67 this month with suburban Maryland's astronaut Ron Parise, WA4SIR. Ron's fellow payload specialist is Sam Durance, N3TQA, from suburban Baltimore. You may get SAREX operating tips from packet radio bulletins and AMSAT net announcements.

LOCAL AMSAT MEETING. The first local

AMSAT meeting of 1995 is at 1 p.m. Sunday, March 19 at the GSFC Visitor Center auditorium (301-286-8981) in Greenbelt, Maryland. what a great opportunity to meet others and learn something new! All are welcome!

ARRL MARYLAND STATE CONVENTION. AMSAT will staff a highly visible table at the ARRL Convention at the BARC "Greater Baltimore Hamboree" in Timonium, Maryland on March 25-26. See the ad elsewhere in this issue for directions. we will be accepting memberships both new and renewals, offering amateur satellite software and helpful reference materials, and chatting about the latest OSCAR operating news. As always, beginner's questions and concerns will be well received!

Hope to see you there! 73, Pat WD8LAQ

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Dealer inquiries welcome

Antietam Radio Association

- Meetings: First and Third Tuesday of the month at 8 p.m. at E.O.C. of Washington County Courthouse, 100 West Washington Street, Hagerstown, Maryland
- * Mailing Address: P.O. Box 52, Hagerstown, MD. 21741
- *Nets: Tuesday 7 p.m. 146.940 MHz; Wednesday 7 p.m. 447.975 MHz; Thursday 7 p.m. 147.090 MHz.
- * Information: Donnie Sue Mulligan/KB3AOO (301) 582-2984

We started the New Year off right by having an ARA meeting on January 3, with the new President, Pat Ryan/N3PMO and the new Secretary, Ellen Hammons/N3MZA doing their jobs very well. The Hamfest, May 14, was brought up and Joe Rummel/NS3Q said he would be in touch with all the members before long to see what each one would do. The Board of Directors met immediately following, including two new ones, Larry Belella/N3QBK and Jim Dula/N3PMP with Ted Lawhead/WA3AAT and our President, Pat.

SKYWARN! Keep your eyes on the skies and your batteries dry, so says Charles Anderson/NF3X/RACES DEC. On January 21, Saturday morning, 9 a.m., we met at Hagerstown Junior College for instructions from Melody Hall, National Weather Service, instructing us and showing us slides and films of tornados, flash floods, clouds (and their names), etc. and how to know what, when and how to report to the National Weather Service and how to become a SPOTTER for Skywarn. It was an interesting 3 hours spent in a classroom. This class was the "Basic Skywarn Class". The "Basic II Class" will be at Sterling, Virginia on February 9, 1995 from 7-9:30 p.m. Our questions were answered by Melody Hall, Charlie Anderson, and Steve Blevins/ N3MVL/Acting EC.

On January 24, 1995, Pat, President of ARA, and Page/WA3EOP, a member of the MD/DC QSO Party Committee, visited with the Columbia Amateur Radio Association at their meeting in Ellicot City. They presented CARA with a plaque for winning the club competition of the 1994 MD/DC QSO Party.

There is a new class starting for Novices/Technicians on January 28 through April 22, 1995. Call

Robert (Bob) Long for details.

Congratulations to all those that took the exams on Sunday, January 29 at Hagerstown Junior College. The next Antietam Radio Association ARRL VE Team exams will be on April 30. The Mountain Amateur Radio Club will be giving FREE exams during the Great Hagerstown Hamfest on May 14, 1995.

Hope to see you at the Hamfest! 73, Donnie Sue

Baltimore Amateur Radio Club

- Meetings: Twice monthly, 7:30 pm at Dulaney High School (Padonia Road, Timonium MD) First Wednesday of the month: business meeting; Third Wednesday of the month: programming
- **Repeaters: W3FT/RPTR 146.67(-)/224.24(-) (no PL) and 449.625(-) (PL 107.2) Note: two meter/ 220 Mhz are linked.
- ** Club Net: Every Tuesday night at 8:30 pm on 146.67/224.24
- * Club BBS: (410) 665-7646 (minimum 2400 baud)
- * Club Voice Mail/Information: (410) HAM-TALK
- T Greater Baltimore Hamboree & Computerfest/ Maryland State ARRL Convention Information: (410) HAM-FEST or (800) HAM-FEST
- * Mailing: BARC, Inc.; P.O. BOX 120; Reisterstown MD 21136

We are pleased to announce the 24th annual Greater Baltimore Hamboree and Computerfest (GBH&C) and American Radio Relay League Maryland State Convention which will take place at the Maryland State Fairgrounds in Timonium, Maryland on Saturday March 25th and Sunday March 26th, 1995, from 8 am to 4 pm both days. The event drew over 18,000 attendees last year, with over 1,000 indoor spaces and over 800 tailgating spaces (combined indoor and outdoor tailgating). Please join us for this year's event... we are working hard to make it better than ever. The rest of this column is devoted to specifics regarding general admission tickets, the convention program schedule, and the banquet. For more information see the advertisement elsewhere in Autocall. or call the contact number(s) listed in the club column header. Notes: talk-in will be on 146.67(-) MHz; make all checks payable to "GBH&C".

Continued on next page

BARC - Continued from page 32

Advance sale admission tickets are available at a discount price of \$8.00 (includes both Saturday and Sunday): send an SASE to GBH&C, P.O. Box 95, Timonium, MD, 21094-0095, Attn: Advance Tickets.

Program Schedule for the 1995 ARRL Maryland Convention Saturday, March 25, 1995: 9:00-10:00AM

Improving The Performance of Your HF Antenna,
Hosted by Frank Donovan, W3LPL
10:00-11:00AM

FCC Forum presented by John Johnston 11:00-12:00PM

ARRL Forum, Hosted by Hugh Turnbull, W3ABC and Kay Craigie, WT3P
12:00-1:00PM

ARES Overview, Hosted by Rick Palm. K1CE (ARRL Headquarters)
1:00-2:00PM

RFI Symposium, Hosted by Ed Hare, KA1CV (ARRL Headquarters)
2:00-3:00PM

Fox Hunting and Radio Sport, Hosted by Kevin Kelly, N6QAB

Greater Baltimore Hamboree & Computerfest & ARRL Maryland State Convention Banquet Saturday, March 25, 1995:

Master of Ceremonies: Ted Provenza, W3OWN. The menu will be: Chicken Cordon-Bleu (\$19.50) or Prime Rib (\$20.50). Also includes: Garden Salad, Red Parsley Potatoes, Green Beans Almandine, Dinner Rolls, Rye Sticks, Carrot Cake, Coffee, Tea and Decaf, Open Bar.

Banquet schedule:

6:30PM - Fresh Fruit, Cheese Platter, Vegetable Platter

7:00PM- Dinner Served

8:00PM - Keynote Speaker, James Lardusky, Curator of the Baltimore Streetcar Museum, Presenting a walk through Baltimore History.

Banquet tickets are available by sending an SASE to GBH&C, P.O. Box 95, Timonium, MD 21094-0095, Attn: Banquet

... 73 de N3IVO/Rosie

CCARC

Carroll County Amateur Radio Club

- Meetings: 2nd Monday at 7:30 pm, Carroll County EOC
- * Washinton Road (Rte 32) 1 mile north of
- * Route 97, Westminster, MD.
- * Repeaters: 145.41 MHz, 449.875 MHz, 53.090/ 52.090 MHz
- Mail: CCARC, Inc., P.O. Box 2099, Westminster, MD 21158
- * BBS: K3ZPN, 145.03 MHz and 441.000 MHz

CARET NET: The Carroll Amateur Radio Emergency Team net meets every Tuesday on 145.41- at 8:30 PM local time. Come join us for ARRL news, bulletins, information, and emergency training. This net also as liaison to the NTS. Remember to give us a shout on any of the repeaters if you are in the area!

CLASSES: 2-meter code practice is given on 147.480 simplex starting at 7:30 PM local.

It's January! Happy New Year to all!

At our January meeting we passed a motion to pay for a registered copy of the APRS software. A motion to increase our hamfest working funds passed and the tresurary received a nice check from our hamfest committee. A motion to form a nominating committee passed, yes it's that time again. We then watched a video tape of field day activities and had a good time all over again.

The ARES/RACES group has two meetings scheduled, an emergency J-Pole building party scheduled for February 22 at the EOC at 7:30PM, and an ARES/RACES talk by Al/W3YVQ and Tony/WA1QAA tentativly set for March 29. Other projects on the burner are a dummy load building party, an ARES/RACES message form class, and when the weather gets warmer a field operation test.

Phil/KE3FL took applications for ARES/RACES and he also said that he would try to bring the SWR analyser to every meeting from now on.

73, Phil Karras - KE3FL

Central Maryland Amateur Radio Club (CMARC)

- T Club meeting: 4th Friday of the month at 7:30pm, at the New Carrollton Municipal Center, 6016 Princess Garden Parkway, New Carrollton, MD (no meeting in December).
- * Repeater: N3EZD/R 145.230 MHz
- * Net: Every Tuesday, 9:30pm, 145.23 MHz repeater.
- * Mailing Address: Central Maryland Amateur Radio Club, 6016 Princess Garden Parkway, New Carrollton, MD 20784.
- *Information: Oscar Ramsey, Pres. NV3G, (301) 262-3392.

Brian Skutt (ND3F) gave a very interesting and informative presentation on the upcoming World Radiosport Team Championships (WRTC) '95 at CMARC's regular January meeting. Besides showing a video about a previous WRTC, Brian updated club members on support needs for this July's WRTC.

A main topic of discussion at the January business meeting were proposed upgrades to the repeater facility (including autopatch), and how to pay for these upgrades. A CMARC technical committee will be meeting soon with Mike Dees (N3EZD), the repeater designer and trustee, to determine the what upgrades are most feasible, and how they can best be performed.

In our December Autocall article we highlighted an effort to form a 2 meter "Kid's Net" for Elementary and Middle School children. Since there was not a sufficient response to our inquiries along these lines, we will not pursue a new net at this time. However, the Columbia Amateur Radio Association does sponsor a "Youth Net" at 7:30pm every Thursday night on their 147.135 repeater. We encourage everyone interested to support that net, which appears to serve mainly Middle and High School youth.

P.O. BOX 7612 Falls Church, VA 22040-7612

Columbia Amateur Radio Association (CARA)

- The Club meeting: 4th Tuesday of the month at 7:30 p.m., at the Kiwanis Building at the Kiwanis/Wallace Park off of Rte. 144, Ellicott City.
- Net: 147.135 repeater at 8:30 p.m. each Tuesday except for meeting nights. Youth net: 147.135 repeater at 7:30 p.m. every Thursday.
- **Repeaters: 147.735/147.135 (cross-linked to 222.32/223.92); 147.990/147.390 (direct dial 911); 222.32/223.92 (cross-linked to 147.735/147.135); and 443.275/448.275.
- Information: Bob Scarburgh, Pres KC3EV, (410)465-2421.
- * Mailing: P.O. Box 911, Columbia, MD 21044

Our annual Winter Banquet/Installation of officers took place on Jan. 21st, at the Bethany United Methodist Church in Ellicott City. As always there was plenty of good food. President Bob Scarburgh-KC3EV, handed out some very nice Certificates of Appreciation to members for their contributions to the club. Other activity included a 50/50 raffle and music entertainment provided by Daryl Beard-N3GXE.

The following Tues., Jan. 24th, the monthly club meeting was held at the Kiwanis Building at the Kiwanis/Wallace Park (see header above). we will be meeting there from now on because we outgrew the room at the Howard County Building. Antietam Radio Club member Page Pyne-WA3EOP, and club Pres. Pat Ryan-N3PMO, presented CARA with a very nice plaque for being the winning club in last year's Maryland QSO Party, sponsored by the Antietam club. Page made the presentation and Alan Chedester-N3AC, who organized CARA's participation, accepted the award on behalf of the club. We are looking forward to participating in this year's QSO Party.

Our speaker was champion fox hunter Kevin Kelly-N6QAB, who gave a very entertaining talk, demo and slide presentation on the sport. He brought with him a wide range of fox-hunting equipment ranging from very simple home brews to the latest (and expensive) Japanese technology. If you are interested in hearing his presentation, he will be giving it at the Maryland State ARRL Convention during the Baltimore Hamboree and Computer Fest in March.

CARA - Continued from page 34

CARA, under the auspices of the Laurel Amateur Radio Club volunteer Examination Coordinator, has begun to offer amateur license testing. Members of the newly formed committee are Mark-N8CMK, Bob-KC3EV, Tex-W3FUS, Ed-AA3IR, Rick-N3NRL, and Dave-WA3WZX. The first testing session was February 4th. To register for the exams or for more information, contact Bob-KC3EV at 410465-2421.

Belated congratulations to Bill-N30KI, and Leilani-N30HG, who recently tied the knot!!!

73's, Jean Williams-KB3AOT

Department Of State/Voice Of America W3DOS / K3VOA

Much happened already this year in the Foreign Service clubs of W3DOS and K3VOA. New officers were elected, upgrade license exams were held, and the W3DOS VHF repeater was restored.

W3DOS has been operating a Two Meter repeater for many years in Washington. The site is on top of the U.S. Department of State building overlooking the Potomac near the Lincoln Memorial. As some persons may recall our repeater was not working last year due to a bad transformer. While that was being repaired, a back-up repeater was activated by K3VOA at their Voice of America office building near the Capitol. On January 6 we installed a rebuilt transformer in our equipment at Main State, and kept it in standby for ten days to make sure everything was O.K. Working with K3VOA and the T-MARC repeater coordination folks we switched back all operations to our main repeater in mid January. This event shows how two amateur radio teams work together to keep this fine W3DOS repeater working well. During the January T-Marc meeting K3VOA submitted their application for a separate frequency, but they will remain as our back-up until a new frequency is assigned to them. This W3DOS open repeater provides solid coverage of downtown D.C. and nearby Virginia.

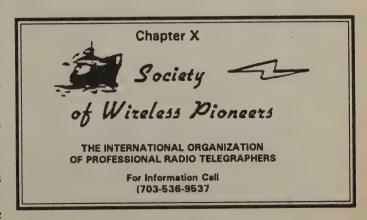
Just before the January snow began, our W3DOS / GWU VE team conducted another Saturday morning session to upgrade Amateur Radio licenses. The tests were held in the George Washington University School of Engineering building near Main State. Sixteen exams were given to eight candidates, and several passing grades were awarded for Tech, Tech plus, and Advanced. One person graduated from Tech to Extra!! Many thanks to the following VE participants who made this upgrade session such a success:

John Swafford		W3HU
Hani Raad	in the second	AA3EI
Jim Hobbs		AA3DN
Tom Dorsett	and a higher for	WB4J
Ken Simmons		N4YGN
Clarke Palmer		W4ZES

The weekly Sunday morning Foreign Service net continues to be a good workout on 20M, 15M and 10M with contacts from many countries. Samples for one month include:

Buenos Aires, Argentina Belize City, Belize Paramaribo, Suriname Tangier, Morocco

That's it for now, but remember to attend the W3DOS monthly meetings on the first Monday and K3VOA on the first Thursday. Both are held over the noon hour with good information exchange.



Green Mountain Repeater Association

- * Meetings: Board of Directors, Last Monday of each
 Month
- repeaters: KD3VR 146.61 (Cheverly) K3GFX 146.88 (Greenbelt)
- * Social Meeting: First Saturday of each Month at the Fountain cafe, in the Laurel Shopping Center Mall, U.S. Rt. 1 (Baltimore Ave.) And Cherry Lane. Starts at 11:30 AM
- * Mailing: GMRA, P.O. Box 429, Riverdale, MD 20738
- * Information: Boyd Nelson KZ3Z (301) 434-0934

GMRA held it's regular social meeting of members and guests at the Fountain Cafe in Laurel on January 7, 1995. This is the first gathering of the New Year. There was a terrific turnout of members and friends. Each time we see a few new faces which indicates the membership is growing.

As we speak about the Green Mountain Repeaters, the words, "User friendly" comes to mind. There are many versions of user friendly but what comes to my mind, is an informal gathering of members and non-members that frequent the 146.88 machine nearly every morning and evening. At 9:30 AM to 10:00 AM and again in the evening at 6:30 PM to 7:00 PM.

This group is headed or Net Controlled, if you will, by none other than K3GIU, better known as "Drummy" to all his friends. K3TZI, Will, is usually the first check in but the order varies from day to day. Woody, K3DLH, calls Drummy's QTH, "Mount Olympus", being it is above us at Elkridge, MD near Baltimore. The age of the check-ins varies from 88 years of age to 12 years old.

There are many colorful characters in this group such as Doc, N3NAG, one of the unheralded celebrities among us. Doc played professional piano for Sammy Kaye and Little Tommy Tuckers Band back in the "Big Band Era". Then there is Roy, N3NGA and electronic technician and a very adept radio operator. Irv, W3HQG, a real personality who has been a ham for some 56 years. Lou, KQ4EY who is the oldest of the group and he lives in Arlington, VA as does Irv. Both have sight problems but you wouldn't know it.

There is a real character among this group, Ted-WB3JOT who is retired but still working. Does that make sense? One of the newcomers is Weedle, N3RAU who hails from West Virginia but lives in Pasadena, MD now. Our newest and youngest is Sampson, N3TJU who is avidly studying his code to upgrade. Last but not least is yours truly Ken, N3HLY who is writing this nutty article. Of course we are monitored by C.T. K3GXF who has to step in now and then and let us know we are polluting the air waves.

Drummy is recuperating from a recent operation and we would like to wish him a quick and speedy recovery. Welcome back Drummy. Thanks to roy for handling the group while Drummy was away. See you at the next luncheon.

Adhere to your New Year's resolutions 73's from Ken Easton, N3HLY

The Herndon Repeater Group

- * Net: Every Monday evening at 9 PM on the N4FSC Repeater, 145.31- MHZ.
- * BBS: BBSHRG connect to N4WJN on 145.03, located near Manassas, Va.
- For Membership Information please contact: The Herndon Repeater Group; Box 5073; Herndon, Va. 22070-1964

The Herndon Repeater Group is a family-oriented amateur radio club comprised of members who join together in the common goal of amateur radio operation, education, technical advancement, public service, and association. Membership is available to anyone interested in amateur radio. HRG coordinates club activities that include participation in Field Day, public service events, VEC examinations, fox hunts, technical seminars, and social events such as family picnics, dinners, and holiday gatherings.

If you are interested in joining our organization, please write to the above address or check into the Monday evening net. HRG holds a net on the N4FSC repeater every Monday evening beginning at 9 PM. Membership in HRG entitles a licensed user to autopatch privileges. A Users' Manual, provided to

Continued on next page

Laurel Amateur Radio Club

A Volunteer Examiner Coordinator

- ** Meetings: 4th Wednesday of each month (except November & December) 7:30pm at 384 Main Street, Laurel Md; Social: 2nd Wednesday of each month, except December (Call for directions)
- * Nets: 1st & 3rd & 5th Wednesdays, 8:30pm, on 147.225+, no tone.
- * Mail: P.O. Box 3039, Laurel, MD 20709-0039
- * Exams: 3rd Saturday of each month, 10:00am, at Maryland Radio Center, Laurel, MD
- * Information: Jim/WI3N (301)725-6829 or Pud/ W3DQI (301)498-6293

LARC RECEIVES SCOUT AWARD

In recognition of the support the LARC provided to the Boy Scout Camporee last October, by setting up a station and giving the Scouts the opportunity to participate in the JOTA activity, the Boy Scouts presented a plaque to the Laurel ARC at the January meeting, and certificates to several members. Gene Eplee, representing the Boy Scouts, expressed the Scouts' appreciation for being able to experience Amateur Radio.

CLUB PROGRAM

Also at the January meeting, a very interesting presentation was made by Bob/WA1LOT regarding LINKCOMEX, and "LINK-MATE", a new noise reduction/voice improvement processor.

VE/VEC PROGRAM

In February, the Laurel VEC added the Columbia Amateur Radio Association (CARA) test sessions to the growing list of clubs for which it will coordinate testing. At the Laurel VE test session in January, 44 individuals were tested, 72 elements were administered and 13 individuals upgraded.

LOCAL QSOs

Pud/W3DQI and yours truly, have officially joined the "Geratol" crowd. How did we do that? Iust ask us! We'll be happy to tell you all about it!

73 de Roger/N3MIJ



Herndon - Continued from page 36

all new members, gives specific information on the repeater, autopatch functions, and other special features of the repeater.

Several times a year the HRG holds amateur VEC examination sessions in the Herndon area. For information on upcoming exam schedules please check into the net or look in future issues of Autocall.

Also, remember that Field Day is less than four months away. We are always looking for hams who have equipment and/or time to participate in this event. Since HRG competes in the battery category; batteries, solar panels, and related items are especially needed. HRG has been at or near the top of our category for the past few years; but even more importantly, we always have a great time and look forward to another fun weekend!

-73 Mike KD4MTW

The Mid-Atlantic DX & Repeater Association

Meetings: By published schedule, generally the second Thursday of each month. Meeting locations rotate among places in Maryland, Pennsylvania, Virginia and West Virginia.

* On-the-air: 1930 Tuesdays, 147.06 MHz.

* Repeaters: Frederick MD: 147.06, 224.20, 448.125; Martinsburg WV: 147.135

* Address: 230 North Potomac Street, Suite 2A, Hagerstown, MD 21740

*Information: Call our voice BBS: (301) 416-8447; select Box 101 and leave a message requesting club info - or - Computer BBS: (301) 416-8435; select club info.

Three out of five passed elements or upgraded at our January test session. A big "Thank you" to Norma Jean, NC3X, Bill, N2CF and Mike, WB8VBW. Special thanks to Norma Jean, who always comes through when we are in a pinch to complete our VE team on short notice. Thanks for non-VE support go to Curt, N3QIZ, and Sam, N3MPE. Sam is our liaison with St. Paul's United Methodist Church in Smithsburg MD. Thanks, too to the pastor and congregation. We are anxious to increase our pool of VEs (ARRL) and ask that you contact Mike, WB8VBW, at Box 112 on our voice BBS if you'd be willing to serve.

The club's landline BBS was down for hard drive service and some upgrades. You should now find the system has multi-line operation and a handy name/call lookup service. FIDONET interface and access to other non-Ham services are in the near future.

Expansion of repeater, packet and remote systems will require a number of computer components. If you have old mother boards, monitors, etc., that are out of date and gathering dust around the shack, MADRA will gladly receive them as donations. We have outfitted four training positions in the club's central facility by careful scrounging in the past.

Remember, MADRA's main areas are dinner meetings and operating events. Most of our members are also in their local clubs in MD, VA, WV or PA, where club business, community activities, etc. are the main concerns. If you'd like to join MADRA, you can

call our voice BBS or just download an application from the computer BBS. Amipro, Word and WordPerfect formats are there and an ASCII format will be up soon.

We're looking forward to the MADRA Picnic, Field Day and Railroad Days in Brunswick MD as our big events in '95. Two new activities are being worked on: a July HamFest and a MADRA Annual Contester Award. We'll have more on all these events as the year moves along.

73 DE N2CSQ/3

The Maryland Apple Dumpling Radio Amateur Society, Inc.

Meetings: 2nd and 4th Thursdays - 7:00 P.M. NBC Building - WKYS Conference Room 4001 Nebraska Avenue Washington, DC 20016

* Net: 1st and 3rd Thursdays at 8:30 P.M. on 145.45

MHZ

* Repeaters: 444.100/449.100 MHZ - 145.45/144.85 MHZ

* Mailing: P.O. Box 2468 - Wheaton, Maryland 20902

* Information: Hani Read - AA3EI (-202) 223-3925 - Larry Ziecheck - N3GKZ (301)-984-6112 - Jean Blacik - N3PLC (,301) 984-6112

MADRAS club member, Louis Solomon - N3EXW, gave a presentation on AMTOR/PACTOR and HF Digital Communication at our January 12th meeting. Many of our members are becoming more interested in this aspect of ham radio and welcomed Louis's knowledge and experience in this area. Many thanks, Louis, you really made the presentation interesting and informative.

Bob Bruniga - WA4APR, ARRL Technical Coordinator, was our guest speaker on January 26th. His presentation on Automatic Packet Reporting System (APRS) was heartily received by our members, many of whom are becoming interested in this mode of communication. We have taken our BBS Station off the air and are now experimenting with APRS.

Anyone planning to drop in on our March 9th meeting will find Al Nollmeyer -W3YVQ, and Mike

Carr -WA1QAA, giving a joint presentation on ARES/RACES and activities in the MDC Section. Al is the MDC RACES Coordinator and Mike is the MDC Section Emergency Coordinator. Both are interesting speakers and make an excellent team. MADRAS always welcomes visitors to its meetings, so drop by if you can.

March 23rd's meeting will find another one of our members giving a presentation on "Field Day Introduction". Scott Standiford - W3YTW, who organizes MADRAS Field Day every year, will be our speaker. He does a supurb job on our Field Day activities every year and still manages to retain his sanity and sense of humor.

73's Jean-N3PLC

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Metrovision Amateur TV Club Fast Scan-Color ATV

- Meetings: Quarterly: Call for next meeting time and place
- *Repeater: WA9GVK/4 (video and audio) 425-431 MHz in; 438-444 MHz out. Also accessible on 144.970 simplex audio.
- * On-the-air: Sundays (ATV Net) at 8:00 PM
- Mailing: Metrovision, Inc. P.O. Box 8231, Falls Church, VA 22041
- ★ Information: Jim KA4CKI (703) 494-6342; Tom KO4OX (703) 752-2100

The first Metrovision meeting for 1995 will be held at the QTH of WB3EPX - Dick on Thursday, March 2, at 7:30 P.M. All of our members and friends are invited to attend. We will have our usual refreshments served at the meeting. The address is: 2600 -Muskogee St. Adelphi, Md. The directions to the meeting place are as follows: From I 495 (beltway), get off at the exit marked New Hampshire Ave.-White Oak. Go to the second traffic light on New Hampshire which will be Powder Mill Road, turn right and go to the next traffic light and turn right onto Riggs Road. Go up and over the beltway and down the hill and turn left at the first street which is Muskogee. Go through the first intersection and 2600 will be the second house on the left. Look for my gray Toyota Tercel with WB3EPX tags parked in front. If anyone has any trouble finding this place, I will be listening on 144.970 simplex.

Perhaps, the Metrovision ATV Club can put together an agenda for 1995 at this forthcoming meeting. We need to plan on this years Summer picnic and the Fall annual dinner. We would ask our members to think about these events and then give some input at the meeting.

See you on ATV. 73 Dick

Submit your Club Column Electronically or on Floppy Disk

Upload your Club Columns to the MRC BBS. (301) 725-8307 (24 Hrs.) or 880-4266 (6pm - 9am only)

If you have any trouble uploading your file, Call MRC at 880-HAMM.

The staff will be more than willing to talk you through it.

We will accept Club Columns submitted on 3.5" or 5.25" disk. IBM format please! DOS Text, Wordperfect (any version) Etc.

Metropolitan Communications Network Radio Club, Inc.

- * Meetings: Quarterly, the second Sunday of the month. Next meeting Sunday March 19, 1995 at the home QTH of WA3GGO, Bob Sporn.
- * Repeater: N3AGB, 52.250 MHZ in, 53.250 MHZ out; Accessible on 147.36 MHZ and 444.35
- * On the Air: Saturdays at 20:00 hours local time
- Mailing: Mary A. Milligan, KA1KWP, 6608 N. 18th St. Arlington, VA. 22205
- * Information: Mary A. Milligan (703) 533-0650

The fourth Quarterly meeting was held, Sunday, December 11, 1994 at the QTH of Bob Sporn, WA3GGO at 14:00 hours. In addition to the various committee reports, there was election of officers for the year 1995.

Officers elected for 1995 were: President: Bob Milligan, KI4MB

Vice President: Lukas Hoska, WA3UEA

Treasurer: Bron Kidwell, N3AGB Secretary: Mary Milligan, KA1KWP

Board of Directors: Joe Saunders, K3UAL

Cliff Brominer, KA3KEL Frances Milligan, KD4AXW

On page 23 of the January 1995 QST, Bob Sporn, WA3GGO saw his license plate shown in the picture of plates collected by a Connecticut Amateur.

FM NET

SATURDAY AT 20:00 HOURS ON THE REPEATER.

New check-ins are always welcomed.

THE SUNDAY MORNING COFFEE NET (50.4 MHZ) AT 09:00 HOURS. CHRISTMAS NET

The Christmas net was held at 10:00 Hours on December 25th. There were nine check-ins, ranging from Kenneth J. McCue, K3UQQ of Elicott City, MD all the way south to David M Geheart, WA4GVT of Huntington, MD. Frank D. Hipsley, WA3ZAR, whom we had not heard from in a long time also joined us on the Christmas Net.

New check-ins are welcome to come in and we have been enjoying a steady increase in the numbers of check-ins.

Mount Vernon Amateur Radio Club

- **Meetings: Second Thursday of each month, 7:30 p.m.(except December) Mt. Vernon Governmental Center 2511 Parker's Lane, Alexandria, VA 22308
- *Repeater: WD4PDP 146.055 input / 146.655 output
- * Nets: Every Tuesday at 9:00 p.m. Starts on 2 meters then moves to 10 meters on 28.408
- Mailing Address: Mt. Vernon Amateur Radio Club(MVARC) c/o Joe Salemi KR4CZ, P.O.Box 7234, Alexandria, VA 22307
- * Information: John KI4HK,(703)780-2882 or Julie KD4WSZ,(703)799-9466Packet145.650KD4LST-1

January MVARC Meeting Highlights:

We would like to extend a warm welcome to our January MVARC meeting guests: Dana Howard AA0BC, Jim Racz KE4TKQ, David Wickliffe (harmonic of Larry KQ4XS), Danny Hamilton (no call sign given), Rick Bunn N4ASX and Clyde Nishimura, guest speaker on Whale Sounds. Thanks for attending and hope to see you at the next meeting.

Thanks to Dr. Clyde Nihimura of the Naval Research Laboratory for our program. Dr. Nishimura gave a very interesting talk about his work with Navy to characterize the sounds of Baliene whales and underwater earthquakes. These types of whales emit very low frequency audio sounds compared to the whale sounds which we are used to hearing about. These sounds travel very long distances under water and Dr. Nishimura has used Navy technology for tracking submarines and to track the travels of whales, one for 45 days. He gave a fascinating presentation and we thank him very much.

February Special Event Station:

MVARC will commemorate George Washington's two hundred sixty third birthday with a Special Event station operated from the grounds of his Mount Vernon Estate. As of the writing of this article, all systems are GO!

Continued on next page

MVARC - Continued from page 40

It takes a lot of time and effort to make a project like this a success. With people like: Dan\N4YKD (contesting guru), Tom\N4BV (30-17 meter cw band captain), Frank\N4GUS (40 meter ph band captain), Steve\WB4EEA (20 meter ph band captain), Bill\KD4CNS and SEESARC (10 meter ph), Maury\W0HYB (certificate processing), Bill\KE4BAE and Scout Troop #980 (site setup-tear down), and all the operators who braved the elements to join the fun. This is bound to be the best Special Event Station yet! Thanks to the joint efforts of ALL involved.

QRP Anyone?

On Saturday, April 1, 1995 (1600Z to 2400Z) The Northern California QRP club will be sponsoring "Spring - QRP To The Field. "If you are interested in participating in this event contact Frank\AA4ZS @ (703)971-9304 for further information. This event is still in the early planning stages so location, participants etc. are not yet defined. Give Frank a call with your ideas and suggestions. As always, the more the merrier!

Till next month.....
Take care and 73, Chris \ KD4LST

National Capitol DX Association

- * Meetings: Feb, Apr, Jun, Oct and Dec at a Member's home. Contact the Secretary (Rick Murphy, WA1SPT) for details.
- * On-The-Air: Every Sunday at 8:30 PM on the 147.000 repeater. All are welcome!
- **Information: Brian Bayus-N1KCE (703) 264-1180, Rick Murphy-WA1SPT (703) 280-2637 or Leo Boberschmidt-KA3TGY (301) 946-3738 or N1KCE on the Local DX Cluster or N1KCE@KF4TE.VA.USA.NA.

The World Radiosport Team Championship will be held in the Washington, D.C. area on July 8-9, 1995. The WRTC-95 is a competition between teams of Amateur Radio operators from all over the globe. The team winning the competition will be declared the best team of amateur radio contest operators in the world.

Fifty teams of two amateurs each will compete for top honors during the 24-hour IARU World HF Radio Championship contest. Local Baltimore/Washington/ Virginia amateur radio stations will be utilized by the competing teams as part of the WRTC-95 competition. In this way, the fifty teams will compete head-tohead in the same geographical area and with the same propagation characteristics and with similar station characteristics, principally antenna system performance. Fifty Host stations in this area are needed for the teams to operate from. The rigs and related equipment will be supplied by the teams. Please consider lending your support and your station to this important event. For more information and a Host station application, please contact the writer or Bill Hider-N3RR at (301) 424-2707, Howard Leake-W6AXX at (410) 465-7008 or Eric Scace-K3NA at (301) 293-2448.

Dick Moen-N7RO has retired from providing his QSL service after 13 years and one million cards processed. Thanks Dick. This service has been taken over by Les Bannon-WF5E who will be carrying on this fine tradition. Cards may be sent to: WF5E DX QSL Service, Les Bannon, 3400 Bedford, Midland, Texas 79703.

The NCDXA meeting held on Saturday, February 25, 1995 at the home of Dave-WC4B and Marlene Hammond in Oakton, Virginia was a great success and all enjoyed the Peter I DX'pedition video provided courtesy of the Northern California DX Foundation. Thanks to Dave and Marlene. More details next month on the April meeting.

73 and Good DX

Brian Bayus-N1KCE President

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Do not send Shack Sale or Club Columns to the Post Office Box. They must be sent directly to me at the above address.

Northern Virginia FM Association

* Meetings: Fall, Winter, Spring

**Weekly Nets: NVFMA, Wed, 8PM,146.79 ARES, Sun 9PM, 146.91, - Equipment Clinic 1st Wed of Month, 7:30PM, 146.79 Repeaters: 52.37/53.37, 146.19/146.79,146.31/146.91, 222.50/224.10 XLink,222.74/224.34, 449.75/444.75,1272.1/1292.1

** Membership Info: Ann Herlich, KD4GSU (703) 481-1458 Mailing Address: NVFMA, P.O. Box 486, McLean, VA 22101

New Board of Directors are Mike Ryan, KB4CVL; Maury Shumaker, WOHYB; and Scott Bellefuille, KE4HCT. These positions are a result of the elections during our January General Membership meeting.

Certificates of appreciation were given to Hal Tunick, WB4QVT, for his outstanding service as Treasurer (Gil, K70R, is new Treasurer); and Bob Payton, KB4PDP, for his outstanding service as host of the Wednesday night "FM Clinic" (Bob, WM5C and Gil, K70R, will be alternating operators of the "FM Clinic").

Guest speaker at our January General

Membership meeting was Ms. C. White from Fairfax General Hospital. Ms. White showed a video of Enrico Davioll, WB4GKN, operating 2-meter equipment in the Children's Ward during Christmas Eve. Santa Clause (Bob Loder, WA40GH) held conversations with many of the hospitalized children bringing much joy. Ms. White thanked NVFMA for their annual public service with "Special Thanks" to Enrico and Bob.

TECH TIP: When designing RF power amplifiers and thinking about bypassing the collector or drain voltage, remember to use sufficient capacitance to account for RF bypassing as well as the other low frequencies, e. g., radio ignition noise, and any other spurious frequencies. Hence, parallel at least 10 uFd with .01 uFd, .001 uFd and 470 pfds. These values will work well at and above 2- meters.

Prince George's Wireless Association

Meetings: First working Tuesday of each month, 7:30 PM; American Red Cross Bldg..; 6206 Belcrest Rd. Hyattsville, MD 20782

* Club Station: K3CEZ

* Mailing: 4109 Kennedy St., Hyattsville, MD 20781

* Information: Frank Holton - WA3ZMW (301) 927-1245

PGWA held it's first monthly meeting of the New Year on January 3, 1995. About one third of the membership were present with Frank, WA3ZMW, presiding. Minutes of the previous meeting were read and approved.

Charles, KA3COT, gave the treasurer's report and announced that the Club had decided to change banking institutions for the betterment of the Club. The President read all incoming correspondence and upcoming Hamfests.

Frank brought to the meeting his combination TV and VCR, all in one unit, and his video tape of the early spark transmitter days. Dave, WB3KXL, our newly elected Vice President, has suggested a showing of a different video tape, depicting uses of Amateur Radio, each month. We all feel that this would make for a more interesting meeting.

Dave printed up copies of available tapes and passed them out among those present so each person can select choices such as, 1st. 2nd. And 3rd. Then at the next meeting we can select the most favorites and send for them.

The Club decided that the third Tuesday of each month would be for Packet Radio Training. Dave, WB3KXL, will be the Club instructor. We would like to see a good turnout of all those interested. We, also, would like to thank Dave for offering his time to do this.

Vince, N3IEG, made a motion that PGWA make their usual yearly donation to the American Red cross, Prince George's Chapter, for PGWA's use of the facilities and the housing of K3CEZ Radio Station. The motion was seconded by Ken, H3HLY.

73's from Ken Easton, N3HLY

Quarter century Wireless Association Shenandoah Valley Chapter No. 137

- * Meetings: Third Wednesday of odd-numbered months, at 12:30 PM;
- * Carper's Valley Golf Club, 1401 Millwood Pike (Route 50 East),
- * Winchester, VA; reservations suggested.
- **Information: Perry F. Crabill, Jr., W3HQX; 703-662-7426
- Mailing Address: 225 Milam Drive, Winchester, VA, 22602

Twenty-two members and guests attended the January 18 meeting at Carper's Valley Golf Club. A social period at 12:30 PM was followed by a buffet luncheon for \$6.00 at 1:00 PM. The subsequent business meeting at 1:50 PM was opened by Nat De Gutz, W2CXB, outgoing President, who had served for the past two years. He thanked Guy Black, W4PSJ, outgoing Secretary/Treasurer, and Perry Crabill, W3HQX, outgoing Vice-President, for their service to the Chapter.

Nat conducted an installation ceremony for the new officers. John Kanode, N4MM, was installed in absentia as Vice-President; Perry Crabill, W3HQX was installed as Secretary/Treasurer; Walter Johnson, WA4HVU, was installed as President and took over conduct of the remainder of the meeting.

Walter advised that our next meeting will feature our own Ed Rich, K3THD, with a program about emergency service. Other programs are pending and he promised that they will be interesting. Walter urged everyone to be active in recruiting new members; at present, the membership is around 30.

At this point, instead of a formal program, the meeting was turned over to the floor for members to recount some of their interesting experiences. These included wartime military communications activities in addition to amateur radio happenings. The meeting adjourned at 2:47 PM with the announcement that the next meeting would be on March 15 at the same place and time.

Perry Crabill, W3HQX - Secretary/Treasurer

Springfield Estates Elementary School ARC (SEESARC)

- ** Meetings: First Friday of every month at 7:30 p.m. Springfield Estates Elementary School, 6200 Charles Goff Drive, Springfield VA
- **T** President: Brian Johnson KE4CLB (703) 455-3075; Vice Pres: Josh Bowman KE4EKZ (703) 971-3990; Secretary: Luke Ward KO4IQ (703) 922-6545; Treasurer: Richard Harman KE4POK (703) 971-5477
- Mailing: SEESARC, 6200 Charles Goff Drive, Springfield VA 22150

A lot has happened since our last AUTOCALL article. Our fall Technician Class (run in conjunction with Mount Vernon Amateur Radio Club) ended in December with the December 10th MVARC examining session. Over half of our stu dents got their tickets on the first try as a result of the class. Thanks to super instructor/organizer Bill, KD4CNS; and instructors Frank, N4GUS; Dick, WA4USB; John, WZ4A; Steve, WB4EEA; Steve, KQ4XE, and all the others who helped make the class a success.

Our January meeting was canceled due to the icy weather, but we got the February meeting in just before the big snow storm. In addition to our program on the auroras (Northern Lights) we made a 2M contact with Mike, NW3V, who was putting on an amateur radio demonstration for a boy scout troop and a cub scout pack. Brian, KE4CLB, talked to the scouts about the fun of amateur radio.

Plans were made for our participation in the School Club Roundup contest February 13-17, using the club station in Room 19 of Springfield Estates Elementary School. We also plan to run amateur radio demonstrations during the contest for students at the school so they can see the fun we're having. We placed Second and Third in the nation in the Elementary School category the last two years, and are looking for a big finish this year, too.

For the third year in a row, SEESARC is participating in the MVARC Special Events Station commemorating Washington's Birthday. We will be running three Novice/Technician stations for the event: 10M phone, 2M phone, and 2M packet. Hope you contacted us during the event on 18 and 19 February.

We meet the first Friday of every month in Room 19 of Springfield Estates Elementary School. We look forward to seeing you there!

73 de Brian, KE4CLB.

Southern Maryland Amateur Radio Club

- Meetings: 2nd Friday of each month at 1930 at the PG County Police, Clinton Station, 6707 Groverton Drive, Clinton, Maryland.
- *Nets: Tuesday at 2000 on 147.15+ Repeater; Wednesday at 2000 on 1.865 (+ QRM); Thursday at 2000 on 28.447 USB.
- * Repeater: WA3YUV/R 147.15+, Cheltenham, Md. Autopatch to 911.
- Mailing Address: P.O. Box 273, Cheltenham, Md, 20623
- ** Information: Vic (WA3YUV) & Linda (KA3VNI), (301) 888-1388

Bet you thought that things were quiet around the old ranch lately. The club has been very busy working to improve the repeater's operation. During January some of our brave (?) members replaced the antenna feed harness which greatly improved the four bay array performance. It was great to switch back from the omni which had some real interesting coverage. The repeater committee continues to make progress on the phone patch capability. By now the control circuits should be completed and the operating procedures well under development. It will be important that all members carefully review and observe these procedures.

Our new (relatively) meeting location seems to be working out well. Speaking of which, if arrangements can be made, the Board meeting will be moved from the 4th Friday to the 4th Thursday. The meeting is open to members.

SPECIAL NOTE: The regular March club meeting will be anything but regular. We will be having a "minihamfest" for the benefit of the repeater fund. The upgrades and improvements to the repeater and the autopatch have strained the repeater fund. At this meeting we will have donated items available for sale for the benefit of the repeater fund. In addition there will be wall space available for anyone (that's anyone - not just SMARC members) who would like to set up their own items for sale. The bargain rate for this wall space is just \$5. A short business meeting will be held from 8:00 - 8:30 PM to be followed by the open equipment sales until .. whenever. Contact Larry, N3CAM, at 301-292-4945 for reservations.

Even though we have had a relatively mild winter, could spring be too far away? Keep your ear to the repeater for late breaking information and don't forget our weekly nets. See you next month.

Sterling Park Amateur Radio Club

- Meetings: 8:00 P.M. Third Monday of the month except July and August at Sterling Community Center Annex, Church Rd. (Rt. 625) near Route 28, Sterling, VA
- * Mailing: Call Box 599, Sterling, VA 20167
- Information: Forrest Snyder, N4UTY (Pres.) 430-4149, W. T. "Red" Free, W3FTG (PIO) 709-0896

Club members were treated in January to an outstanding presentation, complete with color slides, by Luther Hux N4BZQ. Luther combines his primary interest in radio controlled airplanes with ham radio controlled aerial photography. Everyone was truly impressed with what can be done with a basic 35 mm camera in a model aircraft.

In February, the club is scheduled to have had a presentation on the new FCC Rule and Order on "Vanity Callsigns." Members are already plotting just which 25 calls they would most like to have.

The 20th anniversary of SPARC sponsorship of the Virginia QSO Party is this year. The event will be on March 18-20, and will feature attempts to activate all 95 counties for the first time in the same contest. Last year's mobile winners WA4PGM and WK4Y have announced their intent to put 25 counties in south central Virginia on with a kilowatt mobile! See elsewhere in Auto-Call for contest rules.

The March club meeting will feature a QSO Party postmortem and begin the planning cycle for the 1995 Field Day effort. Steve Harrison KO0U/4 has indicated his willingness to chair this event, if he is still in the area. By the way, Steve racked up an impressive 4-band score of 33,364 points on 254 QSOs in 76 grid squares in the January ARRL VHF Sweepstakes. 'Way to go!

Club members are reminded to get their dues renewal in to Treasurer Ray Mullins KD4RSL to help pay for the Field Day goodies! And QSO Party logs and summaries are due to contest chairman "Red" Free W3FTG by April 15.

1995 VIRGINIA QSO PARTY

95 in '95!

The Virginia QSO Party is celebrating the 20th anniversary of its sponsorship by the Sterling Park ARC in a big way. Plans are being made to activate ALL 95 Counties during the contest weekend in 1995. The contest will be held on March 18-20. Contest times are from 1800 UTC on March 18 through 0500 UTC on the 19th, and from 1100 UTC March 19th through 0200 UTC on March 20.

Plaques will be awarded to the top scoring Virginia and Out-of-State entrants, and to High CW Only, QRP Only, VHF Only, High Novice/Tech Plus, Club and Virginia Mobile stations. Certificates go to the high scoring single operator fixed station in each Virginia county, U.S. state, Canadian province and DX country. Special certificates will be awarded contestants who have at least one QSO with stations in all 95 Virginia counties.

Work fixed stations once per band/mode. No cross-mode, cross-band or repeater QSOs. Work VA mobiles in each county they operate. Mobiles or fixed stations on county lines count as one QSO and as many county multipliers as they offer. Count fixed stations only once as multipliers. VA mobiles receive a bonus of 100 additional points overall for each Virginia county in which they log a valid QSO. Exchange QSO number and QTH—County for VA stations; state, province or DX country for others.

Frequencies: 160 meters and up, except no WARC band QSOs permitted.

Suggested frequencies: CW—1805 kHz and 50 kHz up from band edge on others. SSB—1845, 3860. 7260, 14260, 21360, and 28360 kHz. Novice/Tech Plus—10 kHz up from the edge of the CW band edge and 28360 on SSB. All frequencies plus or minus QRM and nets. On VHF, operate plus or minus national calling frequencies.

Scoring: Count one point per SSB, 2 points per CW, and 3 points per VA mobile QSO (SSB or CW). Virginia fixed stations multiply QSO points by the total number of VA counties, states, provinces and DX countries. No extra multiplier for U.S., VE, KH6 or KL7 (count as states or provinces only). Mobiles add to this the bonus points for Virginia counties in which valid QSOs were logged. Outside of VA, multiply QSO points by the number of VA counties worked (maximum of 95) to obtain final score. Stations in Virginia independent cities follow the USA-CA award guidelines for county multiplier.

Follow standard ARRL contest guidelines. Logs must include name, call sign, county (counties) in which operated, mailing address, license class (for High Novice/Tech plaque). Identify all QSOs with band/mode, sequential QSO number sent and received, and date and time of contact in UTC. Dupe sheets are required for 200 QSOs or more. For Club Competition (minimum of 3 valid entries), indicate club name on log. VA mobile stations log QSOs by county of operation. Include a summary sheet plus a certification statement for QRP operations that output power was 5 watts or less at all times. Multioperator stations must indicate all operators by call and will be in a separate category. Contestants using computer logging and reporting are required to verify scoring and duping to ensure contest rules have been followed.

Mail entries by April 15, 1995 to VIRGINIA QSO PARTY, c/o William T. Free W3FTG, 3627 Great Laurel Lane, Fairfax, VA 22033-1212. SASE for sample log/reporting form and VA county list.

St. Mary's County Amateur Radio Association

* Meetings: Fourth Thursday of each month, 7:30 PM, at the Lexington Park library

* Repeater: K3HKI (146.64 MHz)

* Packet: K3HKI.#SOMD.MD.USA.NOAM (145.75/ 145.01/440.975)

* Lunch Bunch: Every Friday, listen in on the 146.64 rptr, 10-11:30 AM to out where

Nets: SMARES every Monday at 1930 on 146.64; BOTTOM COUNTY net every Tuesday at 1930 on the 146.64 MHz repeater

* Address: SMCARA, Box 743, California, MD 20619

* Newsletter: Complimentary copies are available at local Shack stores

The St. Mary's County Amateur Radio Association has been very busy this winter season hosting a variety of displays at public functions to promote our hobby. Now, we are gearing up with upcoming license courses to get more of our neighbors involved!

At our January 26th meeting, a new slate of Officers was inducted for the 1995 membership year: Ben Meyer (KB3AMT) was elected as our new President, replacing outgoing President Tom Clarke(W4OKW). For Vice-President, B.J. Drury was tapped to replace Ben Meyer who has been holding down the VP post. Mark Dudley (KE3OX) received the memberships' nod to become the new Secretary, replacing Stephanie Meyer (N3PJP). Our Treasurer, Garner Hayden (WA3ELE), was re-elected to the lead fiscal position. He has held that position for longer than anyone can remember! Congratulations and best wishes to the new Officers of SMCARA who will guide us to new heights in 1995.

New members receiving tickets are Gary Kappel (N3UAM) and Patrick Younie (N3UAN). Both members were tested on November 28, 1994 and received their callsigns on December 27th. That is a whopping 4 week turnaround. Congratulations Gary and P.J. on your hard work and receipt of those nice callsigns.

The SMCARA will sponsor a spring Novice and Technician Code/No Code class beginning on March 6, 1995 at the Hollywood Volunteer Fire Department. Classes begin at 6 PM and end at 8 PM. The class will

end on April 24th followed by an exam session on May 1st. Instructors for this class will be B.J. Drury (N3RVX), Ben Meyer (KB3AMT) and Mark Dudley (KE3OX). The VE team is headed up by Al Barolet (KJ3E). The VE exam session at 6 PM on May 1st will accept walk-ins but pre-registration is encouraged. Contact B.J. Drury (N3RVX) at 301-884-7175 for information.

The St. Mary's Amateur Radio Emergency Service (SMARES), whose members are mostly from the SMCARA, consist of an active 24 members including a six (6) member executive committee. The ARRL-sponsored organization is headed by St. Mary's County EC, Al Barolet (KJ3E). Practice message traffic sessions are held every Monday evening at 7:30 PM on the 146.64 MHz 2-meter repeater, courtesy of the SMCARA. Mini-SET's are held every third Saturday of each month. All amateurs are welcome to join in on the fun.

The annual SMCARA Winter Dinner was held on Saturday, February 4th at the Aloha Restaurant in California (MD). The turnout of thirty-six folks was treated to a festive Chinese buffet of bountiful proportions - certainly no one went home hungry. We are all looking eagerly to follow-on events as we spool up for spring.

Submitted by: Pete Butt (WA3UMY)

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T-MARC The Middle Atlantic FM And Repeater Council, Inc.

- Meetings: Frequency coordinating committee normally meets the last Monday of each month, 19:30, in the OEP conference room of the Prince George's County Emergency Operations Center off Central Avenue. Talk-in on 146.76 or 147.54 simplex when close-in.
- * Address: P.O. Box 1022, Savage, Md. 20763-1022 for all correspondence.

One of the problems T-MARC has is keeping an up-to-date mailing list of all repeater sponsors (other organizations probably have a similar type of problem). We urge all sponsors to keep an accurate address on file with us so we can keep you informed. Also, since many clubs have Post Office Box addresses which only get picked up once or twice a month, it would be adviseable for T-MARC to have the home address of a club officer or repeater trustee which we can send mail to, since much of the T-MARC correspondence regarding coordination has a 30-day time limit. Please try to help us!

Along the same line, we understand the F.C.C. database for Amateur licensees has the wrong address for about 20% of all licensees! You are required by law to keep a current, valid mailing address on file with the Commission. If they can't get mail to you, you might lose your Amateur license! If you move, you MUST advise the F.C.C. For your own sake, keep the Commission current!

Recent new coordinations include a proposed new 444.450 repeater to W8HNT in southern Fauquier County, Va.; 147.345 to KE4ZN at Quantico, Va.; and 52.95/53.95 to N3ONK at Rising Sun, Md.

In our past discussions about coordination, the topic of "interference" always comes up. So this month, let's discuss the question "What is 'harmful interference'"?

T-MARC defines "Harmful interference" as; "Interference which seriously degrades, obstructs or re-

peatedly interrupts the operation of a radio communication service" (this is essentially the same as the F.C.C.'s definition). This means that if you cannot communicate with another station due to interference from some other source (such as a third station), or if your conversation is continuously interrupted, you have true "interference". However, hearing another repeater on the same frequency as your local machine, when your local repeater is quiet, does not qualify as "interference". Neither does hearing the user of a distant co-channel repeater occasionally bringing up your local machine qualify as "interference". These things may be annoying, but they do not prevent you from using your local repeater - you can override these other signals. And these annoyances also will not prevent a new coordination from being issued. Remember, on the crowded Amateur bands, there is no such thing as a "clear channel". Sorry!

It should be noted that only normal, local, propagation conditions are considered in the frequency coordination process. Extended propagation due to ducting, etc., are not aconsideration - when the band is "open", all the rules go out the window. Likewise, the coordination process is intended only to help repeater users who are within the normal coverage area (or, coordinated "service radius") of their local repeater. When you're "mountain-topping" your home repeater from out in the boonies, don't expect interference-free operation.

This month's "rule of thumb" is for 6-meter repeaters. Most of these machines use a standard 1 MHz input/output offset, and the transmit offset is always negative (-). There are a small number of repeaters that are not using the standard offset. The ARRL and others have been discussing revisions to the 6-meter band plan, so it might change in the future, but for now, the -1 MHz rule is pretty consistent.

Finally, I want to express my personal regret at the passing of Bill Grenfell, W4GF. He was a gentleman, and a credit to Amateur Radio. I will miss him.

73, Gary, W3DTN, T-MARC PIO

Woodbridge Wireless, Inc.

* Meeting: Second Tuesday Each Month Springwoods and Chaucer, Lake Ridge Va.

Monday Night Net: 2000 147.24 with 224.78 Link Repeater on 147.24 MHZ, 144.99 MHZ Simplex PL - 100 Repeater on 444.90 MHZ, Repeater on 224.780 MHZ, Packet LAN on 145.07

* Mailing: P. O. Box 112, Woodbridge, VA 22194

* Information: Jim Stearns - KC4ZHQ (703)670-3480

WOODBRIDGE WIRELESS HAS FOURTH REPEATER OPERATIONS:

This is a simplex and repeater will serve as a relief valve for the 147.24 machine. It will be mainly for radio checks, phone patches, and short QSO's. When you hear a station 144.99 MHZ (before the repeater repeats what you say) turn off your tone and talk as you would on any simplex freq. Here are the particulars: Frequency: 144.99 MHZ, PL Tone: 100 HZ for repeat. AutoPatch code: You must be a member of WWI. It will have the same code as the 147.24 machine when the code is changed in 1995.

DXPEDITION TO VP2M

Five members of the Woodbridge Wireless, along with two other hams, are planning a major effort to put Monserrat on the air for the ARRL Phone DX contest. The members of the group are John WB4NFS, Denis WD4KXB, Ed KJ4VG, Mike KA4RRU, Cliff KO4FM, Bob W4MYA, and Jeff W2HPF. The group will arrive on the island on 28 February and leave 7 March. The call sign will be VP2MFM. The contest is on the 4 and 5 March. Before the contest the group will work mostly RTTY and CW. Of course, during the contest they will work phone exclusively on 10 through 160 meters. Anyone making contact will receive a picture QSL card. Anyone working the group on three bands will also receive a certificate. If you work them on all 6 bands, you will also receive a color world prefix map.

A little about the island. Monserrat is a small island only 12 miles long and 7 miles wide. Its located southeast of the Virgin Islands at 16 degrees 42' North, 62 degrees 12' West. Monserrat is a British Crown Colony that was devastated by Hurricane Hugo

in 1989. Since then, there have been a few DXpeditions to the island; however, VP2M is not real common. The island has recovered and is in good shape now. In fact ham radio played an important part during and after the hurricane, so they passed a law exempting ham radio equipment from taxes. The island is a bit hard to get to. There is no major jet port, just a small airport with no major airlines servicing it. There are no cruise ships or any real heavy influx of tourist, no casinos, nightclubs or nude beaches. In fact, Montserrat is a very conservative place, and doesn't have the crime, racial strife, or social unrest that many of the other Caribbean Islands have. The average high temperature in early March is 88 degrees. So you can see why the group choose VP2M to put on the air during the ARRL phone contest.

March 1, 2, and 3 (zulu time) before the contest: - One RTTY station that will operate on 14.082, 7.082. and 21.082 depending on which band is open. One 6 meter station on 50.110 One HF station on CW that will operate 1.830, 3.530, 7.030, 14.030, 21.030, and 28.030 following the band openings.

March 4 & 5 (zulu time)-during the contest: Two high power stations will operate simultaneously on 2 of the following frequencies - 1.845, 3808, 7.055 listening up, 14.235, 21.310, 28.430.

March 6 - RTTY, phone, and CW on frequencies stated above. 73 Denis - WD4KXB

Who Said That

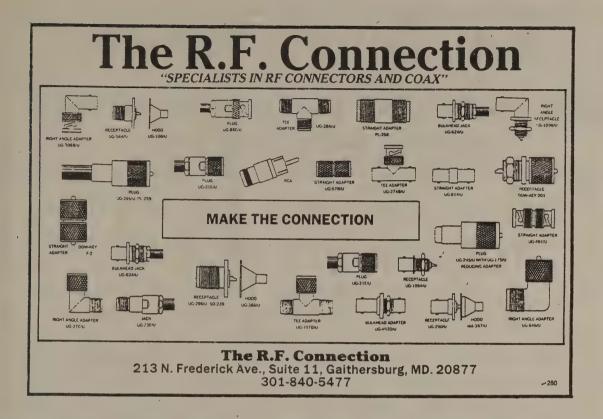
"A fanatic is one who can't change his mind and won't change the subject." — Winston Churchill —

73's, WWI FAR Rep, Jim, KC4ZHQ

AUTO-CALL DEADLINE!

Deadline for submission of Club Columns and Shack Sales is the 1st of the Month

Prior to the Month of Publication
(If you want your material published in April it must
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Estate sales for Widows assistance handled by a FAR club will be published without cost.

Full name and address must be provided with each ad but need not be published. No ads will be accepted over the telephone and all ads must be pre-paid. Ads that will be running for longer than 1 month must be accompanied by a letter stating the length that the ad is to be run. Since no effort is made to investigate advertisers, no warranty can be applied.

ALL ADVERTISING & SHACK SALES - COMMERCIAL AND NON-COMMERCIAL SHOULD BE SENT TO:

Doug Allen, Auto-Call Editor 8008 Shadow Oak Lane Pasadena, MD 21122 (410) 437-6258

Copy MUST be received by the 1st of the month prior to the month of publication.

ESTATE SALE: From the estate of Don Wassmann, KA3VQG: Kenwood TS 440S HF Transceiver with PS-50 Power Supply and Hand Mike. \$800.

Nye Key with oscillator \$20. MFJ 1701 Antenna Selector Switch \$25. Wire Antennas. Contact Bob Henkel, NA3R (301) 649-4494

FOR SALE: Quad Beam Antennas For Two Meters - 2 to 10 Elements. Quad Beam Antennas For Six Meters - 2 to 6 Elements. Halo Loops Available For 2 Meters, For Horizontal Base or Mobile use - 1 & 2 Elements. Some Antennas are assembled and ready to pick up. Kits available for larger antennas upon request. For prices and information, Phone (410) 956-8045, Ask for Lee.

FOR SALE: IBM PS2 Model 70, 486 with Math Coprocessor. Nec Multisync Monochrome Monitor. 60 Mb Disk. Excellent Condition. Includes Dbase IV Developers edition. Asking \$600. Contact Mark, WB1FCO, Bethesda, MD (301) 652-8232

FOR SALE: TS 440S/AT Transceiver, near new, \$1,050.00. Kenwood PS 31 20A Power Supply, \$140.00. MFJ-948 Tuner, W/O Dummy Load, \$100.00. MFJ-989 3 KW Versa Tuner, \$175.00 - Call For Details, Carl, W4ACM, (703) 360-4373

WANTED: Johnson Ranger snap-on crystal cover. Ceramic chimney for 4CX250B. Original instruction manual for TMC GPT-10K. AM transmitter parts. 810 tube. Modulation transformer. Write Chuck, POB 934, Dahlgren, VA 22448

FOR SALE: Kenwood TS-530S, All Bands including WARC, Solid State with built-in Power Supply and Manual \$475.00 Contact Harry Kaklikian, W4ACN, 4941 Andrea Ave, Annandale, VA 22003 (703) 978-4402

FOR SALE: Collins KWM-2A WE, New Tubes, Recently Aligned with Manual, \$375.00 Contact Harry Kaklikian, W4ACN, 4941 Andrea Ave, Annandale, VA 22003 (703) 978-4402

FOR SALE: Kenwood 2M Mobile, Model TM-231 in Excellent Condition with Manual \$135.00. Cushcraft R-5, No Radials, Assembled, 1 Year Old \$150.00 Call Paul-KG6RN (301) 932-1020 or (301) 843-6666, Waldorf, MD

WANTED: Drake L4-B Amplifier, Contact John Unger-W3GOI, P.O. Box 95, Hamilton, VA 22068 (703) 338-4620 Home, (703) 648-6790 Work

FOR SALE: Ameritron Remote Coax Switch. TI-99/4A including video modulator, manuals, Programmer's Reference Guide, two game paddles, and interconnecting cables and power supply. Contact Dick, K3TND, Silver Spring, MD (301) 384-6366

FOR SALE: Satellite Dishes (2), MACOM 3.5-foot with heavy duty mounting hardware, 12-GHz and up, still in crates. REAL CHEAP! Plus one feedhorn; one Hitachi Preamp; one UMT-16 Key Service Unit for telephone tie communications; Plus Standard Communications 24 channel TV receiver. Call Mark Murry-WX3H,(703) 573-4620. Leave Message.

FOR SALE: Three 286 Computers, REAL CHEAP! Call Mark Murry-WX3H, (703) 573-4620. Leave Message.

FOR SALE: Wavetek 1901-C Oscilloscope. Best Offer. Call Mark Murry-WX3H, (703) 573-4620. Leave Message.

WANTED: 2 HT CB (5 watts) preferably all 40 channels. Contact Gerold Rose, 524 N. Quaker, Alexandria, VA 22304-1827; (703) 370-1880

WANTED: I am looking for a Heathkit Oscilloscope (at least 10 MHz) with manuals and Teaching Aid Kits and Hardware often offered with unit. Contact Gerold Rose, 524 N. Quaker, Alexandria, VA 22304-1827; (703) 370-1880

FOR SALE: Thorens TD-124 Transcription Turntable, 16,33,45,78 Speeds, with arm, base, cartridge, supply copy - free music and sound effects - all in excellent shape. Contact Gerold Rose, 524 N. Quaker, Alexandria, VA 22304-1827; (703) 370-1880

FOR SALE: Signal Gen. Model 82, 80 kHz to 50 MHz, 0.1 to 300k uv, 20 Hz to 200 kHz 50v, \$40. VM Freq. Sel Sierra 125B. 10 kHz - 620 kHz, -90 dBm to +32 dBm, Bandwidth 250 Hz or 2500 Hz, Inc. Ins.Book \$40. Computer Mon. B&W 12 inch \$10. Reg. PS 12V 12A, 6V 2A, 48V 2A, \$15. Telegraph relays WE 12A, 27A, Sig. Elect. SW-37. Sounder WE 17A, Best Offers. Wavemeter absorption, 1.6-2.2 Ghz \$15. Attenuator, 1-10 Ghz, 0-40 dB adj. Amp. Tube, 5 kW, from LR3, first TV in Argentina \$10. Transceiver, 2m, Clegg FM27B, rcvr OK, xmtr needs work \$10. Contact Laurence Gray-K3AK (301) 530-8779

FOR SALE:3 El Cushcraft tribander. Used only 3 Yrs., Like New, Make Offer. Call George (703)838-4479(W) or (703)754-2752(H)

FOR SALE: Cushcraft Rotatable Dipole for the 30,17,12 meter WARC Bands. Like New Condition...Make Offer, Call George (703)838-4479(W) or (703)754-2752(H)

FOR SALE: 2 Pairs of 6146 tubes (Matched) Never Been Used & In Shipping Box. Make Offer. Call George (703)838-4479(W) or (703)754-2752(H)

FOR SALE: Index Labs, QRP PLUS 160-10 Meter HF Transceiver. SSB/CW operation. SCAF filter, Digital display, Full break-in CW keying, Synthesized and will operate split frequency. Mint Condition. Will ship in CONUS \$595.00 Contact: Bill W4NFR, Warrenton, VA (703) 347-7262 after 5 PM.

WANTED for museum: Apple-1 and other pre-1980 microcomputers, also early microcomputer journals, newsletters and advertisingliterature. Call (703)231-6478/763-2321

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FOR SALE: Heathkit Model 2001, 25 in. color TV w/all manuals. Good Condition. \$125.00 Grundig Majestic Model SO190Ual stereo Console. excellent Condition, \$400.00 Call Gus (301) 372-6255

FOR SALE: ROHN 25G 58 foot foldover tower, Cushcraft 4 element tri-bander, Ham rotor, 8 guys and hardware \$950 Contact Bill, K3OF, Rockville (301) 929-1915

MOVING: Send SASE for 2 page list or call (301) 929-1915 Bill, K3OF, 4409 Buckthorn Court, Rockville, MD 20853

FOR SALE: Drake L4B Amplifier, 10-80 meters, Mint \$850. Contact Bill, K3OF, Rockville (301)929-1915

Protect Your Ham and Computer Equipment: TOPAZ Power Conditioners (by Square D) Like New current models; 2kva, .5kva. New Price \$1,345, \$795., \$635. Your Price \$135., \$100., \$90. Contact Bill, K3OF, Rockville (301) 929-1915

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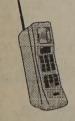
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Bob Saslaw K3ZSB

PRODUCTION POLICY

Copy for Auto-Call will be accepted in form - electronic, compatible computer disk or modem or uploaded to the MRC BBS at (301) 725-8397. All hard copy is reformatted to preserve uniformity of style in the magazine. We use Word Perfect 6.1 for Windows for word processing, PageMaker 5.0 for page layout and CorelDraw 5.0 - CD-ROM for Graphic Design. We also use a Flatbed Full Page 24 bit Color Scanner with WordScan OCR to scan text and graphic's directly into PageMaker. PhotoPaint 5.0 is used to enhance and halftone images. We will accept 5.25" or 3.5" MS-DOS diskette is ASCII format or any version of WordPerfect. Type all headers, byline and body text flush left with no margins. Single space after periods, do not indent paragraphs and double space to begin a new paragraph. If you have any question please feel free to contact: Doug Allen (410) 437-6258.

In determining space requirements, figure about 700 words per page (50 lines at 12 words per line) - not including the space taken up by headings, photographs, etc. Either black and white or color photos can be used as long as the contrast is good. Master copy, which is to be reproduced directly, should be in black ink on white paper and should be in proper page ratio, (Copy space is 7" wide by 9" high). Copy can be reduced or enlarged as necessary.

SHACK SALES

Deadline for copy is the 1st of the month preceding the publication date. Shack sales will NOT be accepted over the telephone. Full address must be provide for our reference but need not be published. Each ad must include the full name of the advertiser. If the full address is not included, we prefer to include the city along with the telephone number so that readers will know whether a long distance charge is involved. The entire telephone number - including city an state is counted as only one word. We do not count postal zip codes. Otherwise, each word, abbreviation, model number or group of letter/numbers is counted as on word. Remittance must accompany each ad.

See next column for additional information on advertising. For further information, please phone the Auto-Call editor at (410) 437-6258, Pasadena, MD.

ADVERTISING RATES SHACK SALES & COMMERCIAL

Non-commercial advertising of Amateur associated equipment is available to subscribers of Auto-Call at 3¢ per word - with a \$1.00 Minimum. Commercial Vendors and non-subscribers rate is 17¢ per word - with a \$5.50 minimum.

Special Headings or special spacing may be used (e.g., one item per line) but such ads are charged at a column inch rate - \$1.00 per column inch for non-commercial ads, \$5.50 per inch for commercial vendors and non-subscribers.

Commercial vendors should include the ad size and length of run (e.g. 1 year, 6 times, etc.) On company letterhead and it must be signed by the person authorizing payment for the ad. Full name and address must be provided with each ad but need not be published. Payment should be included in when the ad is submitted for publication. No ads will be accepted over the telephone. Since no effort is made to investigate advertisers, no warranty can be implied.

DISPLAY ADS

DISPLAY ADS are "Boxed" and may contain artwork or photographs. They may be placed along with the shack sales or displayed in other sections of the magazine. Requests for specific locations will be honored if practical but cannot be guaranteed.

Display ads are charges according to size as shown below. All advertising must be prepaid for at least the current month.

Rates Per Issue							
Ad Size	1 Year	6 Times	3 Times	1 Time			
Full	\$75.00	\$90.00	\$100.00	\$105.00			
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		WOY	1	Anne Arundel VOA	3 Mobileers Shenandoah	4 Stafford Green Mountain
5	6 Adams County DOS	Antietam PG Wireless	Pentagon S. Patuxent **FAR**	9 AMRAD MADRAS Mt. Vernon N. Virginia QCWA 150	10 Alexandria SMARC Vienna	11 Stafford
12 Metrocomm	13 Carroll County PVRC	14 Frederick Fauquier Leisure World Woodbridge	BARC Goddard MARC QCWA 137	16 Anne Arundel QCWA 20	17 Rock Creek Shenandoah	18 Stafford Capitol City
19	20 Culpeper Ole VA Hams Sterling Park	21 Antietam Arlington BRATS	22 Laurel	23 MADRAS St. Mary's	24 Central MD Vienna	25 Stafford
26	27	28 Columbia	29 QCWA 20	30	31	

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